CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS.

New York, August 16, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close. Aug.	Work.	Place.	On file.	See issue.
*17	Sewers	Portland, Ore	P., S. & B. S.	7-26
18	Dwellings	New Orleans, La	S	8-16
18	Steel and concrete building	Boston, Mass	S	8-16
*22	Completing intake	Phila., Pa	P., S. & B. S.	8- 9
22	Intake pier, etc.	Buffalo, N. Y	S	.-..
*23	Grading, steel bars	Billings, Mont	P. & S	7-12
25	Dredging	Wilmington, Del	S	8-16
*27	Pumping machinery	Winnipeg, Man	P., S. & B. S.	8- 9
*30	Boilers and chimney	Galveston, Tex	S. & B. S.	7-26
*30	Canals and ditches	Williston, N. Dak	P. & S	7-12
*30	Tunnel	Salt Lake City, Utah	P., S. & B. S.	6-21
Sept.				
1	Storage works	Conconully, Wash	P., S. & B. S.	7-26
1	Pumpwell, etc.	Charleston, N. C	S	8-16
1	Wiring and lighting	Charleston, S. C	S	8-16
*7	Bridge	Portland, Ore	P., S. & B. S.	8-16
10	Electric pumps	Buford, N. Dak	P., S. & B. S.	8- 9
*11	Canals, etc.	Williston, N. Dak	P., S. & B. S.	7-19
15	Hotel bldg.	Manila, P. I	S	3-29
*18	Portland cement	Portland, Ore	S	7-26
Oct.				
*1	Lock	Donaldsonville, Pa	P. & S	7- 5

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*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work. Place.	On file. See issue.
Aug. 16.	Electric light plant, Oxford, Ohio	Aug. 9
Aug. 17.	Engines, etc., Chicago, Ill	Aug. 9
Aug. 17.	Wiring and lighting, New York, N. Y	Aug. 16
Aug. 17.	Mechanical stokers, Cleveland, Ohio	Aug. 16
Aug. 18.	Gas plant, Gibbon, Minn	Aug. 16
Aug. 18.	Power-house, Elizabeth, Pa	Aug. 2
Aug. 20.	Electric fixtures, Fort Leavenworth, Kans.	Aug. 16
Aug. 21.	Heating & power plant, Evansville, Ind.	Aug. 9
Aug. 22.	Heating plant, Deadwood, S. Dak	Aug. 2
Aug. 23.	Lighting city streets, Rochester, N. Y	Aug. 9
Aug. 30.	Fixtures, New York, N. Y	Aug. 16
Sept. 6.	Power-house, etc., Georgetown, Ohio	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Sept. 10.	Electric pumps, Buford, N. Dak	Aug. 9
Sept. 10.	Electric mchny, Williston, N. Dak	July 19
	Advertised, Eng. News, July 19 to Aug. 16.	
Sept. 12.	Transformer plant, Chicago, Ill	July 26
Sept. 12.	Transformer substation, Chicago, Ill	Aug. 9
Sept. 18.	Lighting, Pottsville, Pa	July 12

BRIDGES.

Aug. 16.	Viaduct, Cleveland, Ohio	Aug. 2
	Advertised, Eng. News, Aug. 2 and 9.	
Aug. 17.	Three bridges, Portsmouth, Ohio	July 26
Aug. 17.	Bridge, Tacoma, Wash	Aug. 9
Aug. 18.	Culverts, Cleveland, Ohio	Aug. 9
Aug. 18.	Bridge railing, Washington, D. C	Aug. 16
	Advertised, Eng. News, Aug. 16.	
Aug. 20.	Macadam, Oakland, Cal	Aug. 16
Aug. 20.	Bridge, Carbondale, Pa	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.	
Aug. 20.	Bridge, St. Clairsville, Ohio	Aug. 2
Aug. 21.	Bridge, Cambridge, Md	Aug. 9
Aug. 21.	Bridges, Langdon, N. Dak	Aug. 16
Aug. 21.	Bridges, Geneseo, Ill	Aug. 16
Aug. 21.	Bridges, Williamsport, Pa	Aug. 16
Aug. 24.	Superstructure, Holland Landing, Ont	Aug. 16
Aug. 24.	Bridge, Priceville, Ont	Aug. 16
Aug. 25.	Bridge, Bradrick, Ohio	Aug. 16
Aug. 25.	Bridge, Huntley, Mont	Aug. 16
Aug. 27.	Three bridges, Wichita, Kans	Aug. 2
Aug. 28.	Bridges, Philadelphia, Pa	Aug. 9
	Advertised, Eng. News, Aug. 16 and 23.	Aug. 16
Aug. 30.	Tile work, New York, N. Y	Aug. 16
Aug. 30.	Two bridges, New Philadelphia, Ohio	Aug. 2
Sept. 4.	Removing bridge, Creston, S. Dak	Aug. 9
Sept. 4.	Bridge, Peoria, Ill	Aug. 16
	Advertised, Eng. News, Aug. 16.	
Sept. 7.	Bridge, Portland, Ore	Aug. 16
	Advertised, Eng. News, Aug. 16 to Sept. 6.	
Sept. 7.	Abutments, Grand Rapids, Mich	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
No date.	Bridge, Warsaw, Ohio	Aug. 9

BUILDINGS.

Aug. 17.	Public school, Lakonta, Iowa	Aug. 9
Aug. 20.	Jail, Salisbury, N. C	Aug. 2
Aug. 21.	Plant, Wilmington, Del	Aug. 2
Aug. 21.	Changes in lift, Chicago, Ill	Aug. 9
Aug. 21.	Addition to reformatory, Rahway, N. J	Aug. 16
Aug. 22.	Two cottages, Hudson, N. Y	Aug. 9
	Advertised, Eng. News, Aug. 9.	
Aug. 23.	High school, Trenton, N. J	Aug. 16
Aug. 23.	Court-house, Heflin, Ala	Aug. 16
Aug. 24.	Door screens, Delaware City, Del	Aug. 2
	Advertised, Eng. News, Aug. 2 to 23.	
Aug. 25.	Screen doors, Dodge, Ga	July 26
	Advertised, Eng. News, July 26 to Aug. 16.	
Aug. 27.	Court-house, Gallatin, Mo	July 19
Aug. 27.	School building, Wetumka, Ind. T	Aug. 9
Aug. 27.	City hall, Nokomis, Ill	Aug. 16
Aug. 28.	Court-house, Gallatin, Mo	Aug. 2
Aug. 29.	Plumbing, Albany, N. Y	Aug. 2
	Advertised, Eng. News, Aug. 2 to 23.	
Aug. 30.	3-story C. S. P. S. lodge building, theater and gymnasium, Traverse City, Mich	Aug. 2
Sept. 1.	Jail, Fairfield, Cal	Aug. 16
Sept. 1.	Office building, Washington, D. C	Aug. 16
Sept. 2.	Court-house, San Jose, Cal	Aug. 16
Sept. 7.	Officers' quarters, West Point, N. Y	Aug. 9
	Advertised, Eng. News, Aug. 9.	
Sept. 15.	Hotel, Manila, P. I	Mar. 29
Sept. 17.	Painting and decorating, St. Paul, Minn.	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Sept. 18.	Painting, Aberdeen, S. Dak	Aug. 16
Sept. 20.	Fireproof doors, Washington, D. C	Aug. 16
	Advertised, Eng. News, Aug. 16 to Sept. 6.	

WATER SUPPLY AND IRRIGATION.

Aug. 17.	Water-works, La Farge, Wis	Aug. 9
Aug. 17.	Laying pipe, Dayton, Ohio	Aug. 9
	Advertised, Eng. News, Aug. 9.	
Aug. 18.	Laying pipe, Westborough, Mass	Aug. 9
	Advertised, Eng. News, Aug. 9.	
Aug. 18.	Laying pipe, Bristol, Conn	Aug. 16
Aug. 20.	Water-works, Kingsley, Mich	Aug. 16
Aug. 21.	Reservoirs, etc., Wales, Wis	Aug. 9
	Advertised, Eng. News, Aug. 9.	
Aug. 21.	Water-works, Steelton, Ont	Aug. 9
Aug. 21.	Valve system, Buffalo, N. Y	Aug. 2
Aug. 21.	Laying pipe, Cincinnati, Ohio	Aug. 2
Aug. 22.	Completing intake, Philadelphia, Pa	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.	
Aug. 22.	Pipe, Portland, Ore	Aug. 16
Aug. 23.	Reservoir, etc., White Plains, N. Y	Aug. 2
	Advertised, Eng. News, Aug. 2 to 16.	
Aug. 24.	Reservoir, Asheville, N. C	Aug. 2
	Advertised, Eng. News, Aug. 2 to 16.	
Aug. 24.	Extension, Shawano, Wis	Aug. 16
Aug. 24.	Engine houses, New York, N. Y	Aug. 16
Aug. 25.	Boilers, Chicago, Ill	Aug. 9
Aug. 27.	Water pipe, etc., Winnipeg, Man	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.	
Aug. 27.	Pumps, Winnipeg, Man	Aug. 2
	Advertised, Eng. News, Aug. 2 to 16.	
Aug. 27.	Water-works, Omaha, Nebr	Aug. 16
Aug. 27.	Filter beds, Sterling, Mass	Aug. 16
	Advertised, Eng. News, Aug. 16.	
Aug. 28.	Water-works, Renovo, Pa	Aug. 16
Aug. 28.	Artesian well, Newport, R. I	Aug. 2
Aug. 30.	Reservoir, Fort Wingate, N. Mex	Aug. 2
Aug. 30.	Boilers & chimney, Galveston, Tex	July 26
Aug. 31.	Intake, wall, etc., Napa, Cal	Aug. 9
Sept. 1.	Water pipe, Washington, D. C	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Sept. 1.	Pump well, etc., Charleston, N. C	Aug. 16
Sept. 4.	Water-works, Malta, Ohio	July 26
Sept. 5.	Two reservoirs, New Orleans, La	June 21
	Advertised, Eng. News, June 21 to Aug. 30.	
Sept. 6.	Water mains, Bismarck, N. Dak	Aug. 16
Sept. 10.	Boiler, Asbury Park, N. J	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Sept. 10.	Electric pumps, Buford, N. Dak	Aug. 9
Sept. 28.	Pumping plant, Garden City, Kans	Aug. 2
	Advertised, Eng. News, Aug. 2 to Sept. 6.	

SEWERAGE.

Aug. 16.	Sewers, Osceola, Iowa	Aug. 9
Aug. 16.	Sewer, Guthrie, Okla	Aug. 9
Aug. 17.	Sewers, St. Louis, Mo	Aug. 9
Aug. 17.	Sewer, Portland, Ore	July 26
	Advertised, Eng. News, July 26 to Aug. 9.	
Aug. 18.	Sewers, Westfield, Mass	Aug. 9
	Advertised, Eng. News, Aug. 9.	
Aug. 18.	Disposal works, Matteawan, N. Y	Aug. 16
Aug. 20.	Sewers, Washington, D. C	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.	
Aug. 21.	Sewers, Billings, Mont	Aug. 9
Aug. 21.	Sewers, Wales, Wis	Aug. 9
	Advertised, Eng. News, Aug. 9.	
Aug. 23.	Sewers, Adrian, Mich	Aug. 16
	Advertised, Eng. News, Aug. 16.	
Aug. 24.	Sewers, St. Louis Mo	Aug. 16
Aug. 27.	Sewers, Menands, N. Y	Aug. 16
	Advertised, Eng. News, Aug. 16.	
Aug. 25.	Sewers, Paducah, Ky	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.	
Aug. 27.	Sewers, Lockland, Ohio	Aug. 2
Sept. 1.	Sewers, Basin, Wyo	Aug. 2
Sept. 3.	Sewers, Vicksburg, Miss	Aug. 16
Sept. 3.	Sewers, Marcus Hook, Pa	Aug. 16
Sept. 7.	Sewers, Utica, N. Y	Aug. 16
Sept. 7.	Sewer gates, Manila, P. I	July 5
	Advertised, Eng. News, July 5 to Aug. 23.	
Sept. 27.	Sewers, Brainerd, Minn	Aug. 9

STREETS AND ROADS.

Aug. 16.	Paving, etc., New York, N. Y	Aug. 9
Aug. 16.	Macadam, Cleveland, Ohio	Aug. 9
Aug. 17.	Grading, etc., Cincinnati, Ohio	Aug. 2
Aug. 17.	Road repairs, Philadelphia, Pa	Aug. 16
Aug. 18.	Grading, Cleveland, Ohio	Aug. 16
Aug. 20.	Walks, Baltimore, Md	Aug. 16
Aug. 20.	Paving, etc., Caldwell, N. J	Aug. 16
Aug. 20.	Paving, Danville, Ill	Aug. 16
Aug. 20.	Grading, etc., Helena, Mont	Aug. 16
Aug. 20.	Macadam, Wilkes-Barre, Pa	Aug. 2
	Advertised, Eng. News, Aug. 2 to 16.	
Aug. 20.	Paving, Fredonia, N. Y	Aug. 2
Aug. 20.	Paving, Archbold, Ohio	Aug. 9
	Advertised, Eng. News, Aug. 9.	
Aug. 20.	Paving, New Bremen, Ohio	Aug. 9
Aug. 21.	Grading, Stevenson, Wash	Aug. 9
Aug. 21.	Paving, Xenia, Ohio	Aug. 9
Aug. 22.	Paving, Hoboken, N. J	Aug. 16
Aug. 22.	Paving, Louisville, Ky	Aug. 16
Aug. 23.	Macadam, Mount Kisco, N. Y	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.	
Aug. 23.	Paving, etc., Cincinnati, Ohio	Aug. 9
Aug. 23.	Grading, etc., White Plains, N. Y	Aug. 2
	Advertised, Eng. News, Aug. 2 to 16.	
Aug. 24.	Sidewalks, etc., Middletown, Ohio	Aug. 16
Aug. 25.	Paving, Greenwich, Conn	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Aug. 25.	Macadam, Bellefontaine, Ohio	Aug. 9
Aug. 27.	Paving, etc., Cincinnati, Ohio	Aug. 9
Aug. 27.	Sidewalks, Salem, N. J	Aug. 2
	Advertised, Eng. News, Aug. 2 to 16.	
Aug. 27.	Road improvement, Albany, N. Y	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Aug. 27.	Paving, etc., New York, N. Y	Aug. 16
Aug. 27.	Sidewalks, etc., Fort Bayard, N. Mex	Aug. 16
Aug. 28.	Road improvement, Albany, N. Y	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Aug. 29.	Road, Columbus, Ohio	Aug. 16
Aug. 29.	Paving, etc., Paducah, Ky	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Aug. 31.	Paving, Cadiz, Ohio	Aug. 16
Sept. 1.	Road, Craig, Colo	Aug. 16
Sept. 2.	Macadam, Haddonfield, N. J	Aug. 16
	Advertised, Eng. News, Aug. 16 to 30.	
Sept. 2.	Sidewalks, Delaware City, Del	Aug. 16
	Advertised, Eng. News, Aug. 16 to 30.	
Sept. 3.	Paving, Vicksburg, Miss	Aug. 16
Sept. 3.	Macadam, Wilmington, N. C	Aug. 9
Sept. 4.	Sidewalks, St. Paul, Minn	Aug. 16
Sept. 4.	Gravel roads, Vincennes, Ind	Aug. 16
Sept. 4.	Paving, Cohoes, N. Y	Aug. 16
	Advertised, Eng. News, Aug. 16.	
Sept. 4.	Flagging, Westfield, N. J	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.	

MISCELLANEOUS CONTRACTS.

Aug. 17.	Dredging, Detroit, Mich	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.	
Aug. 17.	Repairing wharf, Westchester, N. Y	Aug. 16
Aug. 17.	Dredging, Seattle, Wash	Aug. 16
Aug. 18.	Wharf, Grand Mechins, Que	Aug. 16
Aug. 18.	Levee, Groveport, Ohio	Aug. 16
Aug. 18.	26½ miles elec, railway, Hoopestown, Ill.	Aug. 9
	Advertised, Eng. News, Aug. 9.	
Aug. 20.	Levee, Savanna, Ill	Aug. 9
Aug. 20.	Wharf, Alaska	Aug. 9
Aug. 20.	Dredges, St. Louis, Mo	July 19
	Advertised, Eng. News, July 19, 26, Aug. 9 and 16.	
Aug. 20.	Wharf, Alaska	Aug. 16
Aug. 20.	Steam tug, Ottawa, Ont	Aug. 16
Aug. 21.	Mail service, Washington, D. C	Aug. 16
Aug. 21.	Naval supplies, Washington, D. C	July 26
Aug. 22.	Retaining wall, Oneida, N. Y	Aug. 16
Aug. 23.	Incinerator, New York, N. Y	Aug. 16
Aug. 23.	Grading, steel bars, Billings, Mont	July 12
	Advertised, Eng. News, July 12 to 26.	
Aug. 24.	Breakwater, Charles' Cove, N. S	Aug. 16
Aug. 24.	Ditch, Center City, Minn	Aug. 16
Aug. 24.	Removing piers, New York, N. Y	Aug. 16
Aug. 24.	Building ferry terminal, New York, N. Y.	Aug. 16
Aug. 25.	Canal, Douglas, Wyo	Aug. 16
Aug. 25.	Repairing wharves, San Francisco, Cal	Aug. 16
Aug. 25.	Dredging, Wilmington, Del	Aug. 9
	Advertised, Eng. News, Aug. 9 to 23.	
Aug. 28.	Lathe, grinder, etc., Washington, D. C	Aug. 2
	Advertised, Eng. News, Aug. 2 and 9.	
Aug. 28.	Naval supplies, Washington, D. C	Aug. 16
Aug. 30.	Dam, Middletown, Ohio	Aug. 16
Aug. 30.	Excavating, concrete wall, etc., Ithaca, N. Y	Aug. 16
	Advertised, Eng. News, Aug. 16.	
Aug. 30.	Canals, etc., Williston, N. Dak	July 12
	Advertised, Eng. News, July 12 to 26.	
Aug. 30.	Tunnel, Boston, Mass	June 21
	Advertised, Eng. News, June 21 to July 26.	
Aug. 30.	Tunnel, Salt Lake City, Utah	June 21
Aug. 30.	Dam, Columbus, Ohio	Aug. 9
	Advertised, Eng. News, Aug. 9 to 23.	
Aug. 31.	Scrap iron, Panama	Aug. 9
Aug. 31.	Drainage, St. Augustine, Fla	July 19
Aug. 31.	Dipper dredge, St. Augustine, Fla	July 19
Aug. 31.	Levee, Hillview, Ill	Aug. 16
Sept. 1.	Excavating channel, Joliet, Ill	Aug. 16
	Advertised, Eng. News, Aug. 16.	
Sept. 1.	Air compressors, Charleston, S. C	Aug. 16
Sept. 1.	Storage works, Concully, Wash	July 26
	Advertised, Eng. News, July 26 to Aug. 16.	
Sept. 4.	Railway supplies, Siam (Foreign)	Apr. 26
	Advertised, Eng. News, Apr. 26.	
Sept. 4.	Cars, Bangkok, Siam (Foreign)	May 31
	Advertised, Eng. News, May 3 and 10.	
Sept. 4.	Railway ties, Ottawa, Ont.	July 5
Sept. 5.	Ditches, Babcock, Wis	Aug. 16
Sept. 10.	Lock and dam, Winnipeg, Man	Aug. 16
Sept. 11.	Timing devices, Washington, D. C	Aug. 16
Sept. 11.	Canals, ditches, Williston, N. Dak	July 19
	Advertised, Eng. News, July 19 to Aug. 9.	
Sept. 12.	Crematory building, Delaware City, Del.	Aug. 16
	Advertised, Eng. News, Aug. 16 to 30.	
Sept. 12.	Locomotives, Bangkok, Siam (Foreign)	May 31
	Advertised, Eng. News, May 3 and 10.	
Sept. 15.	Canal, levee, Grosse Tete, La	July 26
Sept. 15.	Irrigation ditches, Hazen, Nev	Aug. 2
	Advertised, Eng. News, Aug. 2 to 30.	
Sept. 17.	Dam, Hermiston, Ore	July 26
	Advertised, Eng. News, July 26 to Aug. 16.	
Sept. 18.	Portland cement, Portland, Ore	July 26
	Advertised, Eng. News, July 26 to Aug. 9.	
Sept. 26.	River dredging, Chicago, Ill	July 19
Sept. 26.	Dredging plant, Chicago, Ill	July 19
Sept. 28.	Portland cement, Garden City, Kans	Aug. 9
	Advertised, Eng. News, Aug. 9 to 30.	
Oct. 1.	Ditches, Portland, Ore	Aug. 9
	Advertised, Eng. News, Aug. 9 to 30.	
Oct. 1.	Lock, Donaldsonville, La	July 5
	Advertised, Eng. News, July 5 to Sept. 27.	
Oct. 3.	Coal-handling plant, San Quentin, Cal	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.	
Oct. 15.	Drains, Rio Grande do Sul, Brazil	May 31
Oct. 15.	Steel sheds, Manila, P. I	July 5
Oct. 15.	Steel sheds, Rys., Manila, P. I	July 19
	Advertised, Eng. News, July 19 to Aug. 30.	
No date.	Grading, Cairo, Ill	July 26
	Advertised, Eng. News, July 26.	

CIVIL SERVICE EXAMINATIONS.

Aug. 18.	Marine Engr., Albany, N. Y	July 26
Aug. 18.	Asst. Civil Engr., Albany, N. Y	July 26
	Advertised, Eng. News, July 26.	
Aug. 22.	Tracer, Panama	July 19
Aug. 22.	Science Engineer, Manila, P. I	July 19
Aug. 29.	Arch. Draftsman, Washington, D. C	Aug. 9
Aug. 29.	Inspector of Sewers, Manila, P. I	Aug. 9
Aug. 29.	Civil Engineer, Manila, P. I	Aug. 9
Aug. 29.	Chemist, Manila, P. I	Aug. 9
Aug. 29.	Engineer, Warmsprings, Ore	Aug. 9
Sept. 5.	Engineer, Fort McKinley, Me	Aug. 9

Proposed Work

ENGINEERING NEWS desires to obtain the **EARLIEST POSSIBLE RELIABLE INFORMATION** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

Address, **Construction News Department**

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ARKANSAS, LOUISIANA & GULF.—Incorporated in Arkansas to build a railroad from Pine Bluff through the counties of Jefferson, Lincoln and Drew to Monticello, thence to a point on the Drew and Ashley county line, near Fountain Hill, thence to a point on the Arkansas and Louisiana state line, a total distance of 95 miles, thence to Monroe, La., a distance of 40 miles. Capital stock, $3,000,000. Incorporators: C. E. Titus, Eugene A. Sunderlin, Ernest G. Hammer and Robert G. Atkins. J. M. Parker, of Colorado Springs, Colo., is Pres. Surveys are now being run and contracts may be let soon.

ARKANSAS, RED RIVER & PARIS.—This company has been incorporated in Arkansas to build a railroad from Morris Ferry via Moon to Harris Ferry, on the Red River, 38 miles, and thence to Paris, Tex. Capital stock, $265,000. Incorporators: W. S. Pryor, of Kansas City, Mo.; J. M. Johnson, R. M. Price, F. A. Locke, S. C. Marr, T. J. Lott, D. Johnson, W. C. Martin, W. E. Kinsworthy, of Ashdown, Ark.; P. S. Brown, of Kansas City, Mo., is Pres.

BEAUMONT & SARATOGA TRANSPORTATION CO.—We are officially advised that this company will build a 22-mile railroad from Voth to Saratoga, Tex. Twelve miles are constructed, and remaining mileage is to be built by the company's forces. Surveys are made and right-of-way is mostly obtained. J. H. Broome is Ch. Engr., at Voth, Tex.

BUFFALO CREEK EXTENSION RY.—Incorporated in New York State to build a railroad eight miles long, to connect the Buffalo Creek R. R. with the Lehigh Valley R. R., in the vicinity of Buffalo. Capital stock, $400,000. Incorporators: Charles Steele, F. D. Underwood, 21 Cortlandt St., New York; and George F. Brownell, 11 Broadway, New York.

CANADIAN NORTHERN.—A. D. McRAE. of Fort Rouge, Man., has contract for grading about 50 miles of line on the extension from Oak Point, Man., to a point north of Gladstone.

CANADIAN PACIFIC.—Surveys are being made for a suitable route through the bog near Magog, Que., to do away with some long trestles, it is reported. The cost of the improvement is to be about $85,000. At Cascade, B. C., the company proposes to replace a bridge by making a fill 1,300 ft. long and 200 ft. high. The cost of the work will be about $500,000. H. L. Jordan is Div. Engr. Const., at Montreal, Que.

CARTHAGE & PINEHURST.—Company has been incorporated in North Carolina to build a 12-mile railway, from Carthage to Pinehurst, N. C. Surveys have been made. Construction is to begin early next month. T. B. Tyson is Pres., Carthage; Henry A. Page, Secy. and Treas., Aberdeen, N. C., and Frank Page, Ch. Engr., at Biscoe, N. C.

CHICAGO, CINCINNATI & LOUISVILLE.—Press dispatches from Muncie, Ind., state that this company is surveying an extension from Griffith, Ind., to Chicago, Ill., 29 miles. At present the C., C. & L. uses the Grand Trunk Ry. System's tracks between these points. R. P. Dalton is Gen. Supt., at Cincinnati, Ohio.

CHICAGO GREAT WESTERN.—This company contemplates building an extension of its line from Strawberry Point, Iowa, to Devil's Backbone, about 20 miles in length. A. Munster is Ch. Engr., St. Paul, Minn.

CHICAGO, ST. PAUL, MINNEAPOLIS & OMAHA.—C. W. Johnson, Ch. Engr., St. Paul, Minn., is reported to have announced that this company will build a new main line from Cumberland to Comstock, Wis., 200 miles, at an estimated cost of $500,000.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—It is reported that preliminary surveys have been made by this company for building a cut-off about one mile long to connect the Chicago division with the new Chicago, Indiana & Southern Ry., at Sheff, Ind.

Contracts have been let to W. F. NUGENT & BROS., Louisville, Ky., for ten miles of double-tracking on the line from Indianapolis, Ind., to Greencastle. Work has already begun. W. M. Duane is Ch. Engr., at Cincinnati, Ohio.

DANVILLE & EASTERN ILLINOIS.—Incorporated in Illinois to build a railway from Danville to a point in Vermillion County. Capital stock, $5,000. Incorporators: George M. Mattis, Charles A. Wright, W. H. Burke and Charles Zilly, of Champaign, and J. E. Johnson, of Danville. Principal office, Champaign, Ill.

DAYTONA, DE LAND & ST. JOHNS RIVER.—This company has been incorporated in Florida to build a railroad from the St. Johns River east, via De Land, Daytona and Daytona Beach to Seabreeze, on the Atlantic Coast. Surveys have been made. W. J. Morgan is Pres., Bellaire, Ohio; D. D. Rogers is Const. Engr., De Land, Fla.

DENVER, YELLOWSTONE & PACIFIC.—The prospectus of this company states that the road will run from Denver, Colo., northwest, entering Wyoming south of Saratoga, passing northwest from that city to the Sweetwater Valley, up that stream close to the headwaters, passing through Atlantic City and South Pass to Leckie, and thence via Norfolk, Boulder, Pinedale, Cora, Wells, on to Jackson and the Yellowstone Park, and then to Seattle, the northwestern terminus. F. Chatterton, of Cheyenne, Wyo., is Pres.

DURHAM & CHARLOTTE.—Frank D. Jones, Supt., Gulf, N. C., states that it is proposed to build a line from Gulf to Greensboro, N. C., 69 miles.

EAST ST. LOUIS, GRANITE CITY & ALTON SUBURBAN.—Incorporated in Illinois to build a railway from East St. Louis to Alton and Edwardsville. Capital stock, $2,500. Incorporators: L. C. Haynes, G. C. Pierce, T. W. Gregory, F. H. Thomas, all of East St. Louis, and F. E. Allen, of St. Louis, Mo. Principal office will be at East St. Louis, Ill.

ELDORADO, MARION & SOUTHWESTERN.—S. T. Bush, Pres., Carbondale, Ill., writes that surveys are being made for this road from Eldorado via Pittsburg, to Marion, Ill. Grading has been commenced on seven miles of line from Marion to Pittsburg. The contractors are CHARLES LA RUE and P. S. McCANN. S. H. Bundy is Secy. and Treas., and F. Hutchinson, Ch Engr., at Carbondale, Ill. Noted on July 19.

GEORGIA.—A plan is under way to build a railroad from Americus, Ga., to Hawkinsville, Ga., 60 miles, connecting with the Atlanta, Birmingham & Atlantic Ry. at Byronville or Vienna, Ga. The prospect for building the line seems bright, according to S. A. Pruitt, Secy. of Americus Board of Trade.

GEORGIA, SOUTHWESTERN & GULF.—This company has been granted a charter in Georgia. It will build a line 155 miles long, running from Albany, Ga., to St. Andrews Bay, Fla., passing through Terrell, Calhoun, Dougherty, Baker, Miller, Decatur, Counties, in Georgia; Jackson, Calhoun and Washington Counties, in Florida. Capital stock, $300,000. Incorporators: W. M. Legg, H. J. Bruton, A. H. Russell, M. D. Powell, W. W. Gordon, Jr., of Georgia; W. H. Milton, of Marianna, Fla.; E. V. Babcock and F. R. Babcock, of Pittsburg, Pa.; D. S. Pate and G. J. Pope, of Chicago.

GRANDIN & NORTHWESTERN.—Incorporated in Missouri to build a railroad from Winona to West Eminence, Shannon County, 15 miles. Capital stock, $150,000. Incorporators: John B. White, William S. McKinney, J. D. Riddell, F. C. Broadway and A. T. Hemingway.

ILLINOIS CENTRAL.—Contract has been awarded, it is reported, for building an extension from Harleyville to Corinth, Miss., to the L. E. MYERS CO., Monadnock Bldg., Chicago.

IDAHO & NORTHWESTERN.—This logging road, which is now in operation from Mica Bay, on Coeur d'Alene Lake, Idaho, to the boundary of Coeur d'Alene Indian Reservation, 18 miles, is to be extended southeast across the reservation and into St. Joseph and St. Maries Valleys, and from Mica Bay north to Coeur d'Alene. Surveys are being made. The road is owned by the B. R. Lewis Lumber Co., of Coeur d'Alene.

LITTLE RIVER.—This company will build a 15-mile extension. G. B. Townsend is Ch. Engr., Townsend, Tenn.

MISSOURI & NORTH ARKANSAS.—We are officially advised that this company has acquired by purchase the St. Louis & North Arkansas R. R. Co., together with all franchises, charter rights and property, both real and personal. An extension will be built from Seligman to Joplin, Mo., 61 miles. Contract has been let to the ALLEGHENY IMPROVEMENT CO., of St. Louis. W. S. Dawley has been appointed chief engineer, in full charge of location and construction, with office in Security Bldg., St. Louis. Actual work has not yet commenced.

MEMPHIS, PARIS & GULF.—A contract for grading two miles from Little Rock, Ark., has been let to J. F. ANDERS, and work is to be started at once.

OSCEOLA, LITTLE RIVER & WESTERN.—This company, which now operates six miles of standard gage railroad, intends to build about four miles more this summer and fall, and eventually to Little River, or probably further. John P. Keiser is Pres.; James L. Hale, Vice-Pres. and Secy.; J. H. Hopkins, Gen. Mgr.; J. P. Keiser is Engr.-in-Charge.

PENNSYLVANIA LINES WEST OF PITTSBURG.—Plans are being considered for a cut-off from Smiths Ferry, Pa., through Columbiana County, Ohio, to a connection with the Pittsburg, Fort Wayne & Chicago Ry., just east of Alliance, Ohio, 40 miles, it is said. The route goes through the townships of St. Clair, Madison, Wayne, Center, Hanover, Butler and Knox.

PEARL RIVER.—Surveys are underway for building this line from Jackson, Miss., to Columbus, Miss. Fred W. Herrick, of Lac du Flambeau, Wis., is interested.

ST. JOSEPH & GRAND ISLAND.—An extension will be built to Highland, Mo. J. Berlingett is Gen. Supt., St. Joseph, Mo.

ST. LOUIS, WEBSTER & VALLEY PARK.—Announcement is made that $1,500,000 worth of bonds have been issued, securing the necessary money to resume work on this road. The Trust Co., of St. Louis County, is trustee. It is to be a double-tracked line from West End Heights, Mo., to Valley Park.

SHREVEPORT & NORTHEASTERN.—At a recent meeting of the directors the following officers were elected: A. K. Clingman, Pres.; A. Kinnebrew, First Vice-Pres.; S. C. Fullilove, Secy., Shreveport, La.; T. E. Schumpert, Treas., Shreveport. J. T. Hardman, of Homer, La., was elected chief engineer of the work of constructing the line from Shreveport to Homer. President Clingman reports that about 15 miles of road has been built between Minden and Homer, and that six miles of work is in progress. Noted on Aug. 9.

YOUNGSTOWN & SOUTHERN.—PATRICK JOYCE, of Lisbon, Ohio, has contract for grading the line from Columbiana to Leetonia, Ohio. S. J. Dill is Gen. Mgr., at Youngstown, Ohio.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—A syndicate representing financial and manufacturing interests in Massachusetts have petitioned the Railroad Commissioners, it is stated, for the right to construct an electric interurban railroad between Beverly and Boston, passing through Salem, Peabody, Lynn, Saugus, Revere and Chelsea. From Peabody a line will be extended to Danvers via Danversport. It will be known as the Boston & Eastern Electric R. R. Actual surveys have been made. The line will be standard gage. It will be about 16½ miles long, with a branch line 3½ miles long. Capital stock is $250,000. The incorporators are John H. Bickford, 34 Buffum St., Salem; J. Hunt Smith, Norwich Town, Conn.; Charles Dayton, 71 Myrtle Ave., Montclair, N. J.; William R. Heath, 229 Broadway, New York; Clarence S. Brown, 43 Wall St., New York; William H. Young, 10 North Tenth Ave., Mount Vernon, N. Y.; Arthur Sturgis, 79 Cypress St., Brookline; Harry Prescott Graves, 270 Varnum Ave., Lowell; William H. Gove, 254 Lafayette St., Salem; George C. Vaughn, 26 Winter St., Salem; Melville Woodbury, 72 Lothrop St., Beverly; William S. Nichols, 300 Lafayette St., Salem; Fred A. Norton, 11 Barr St., Salem; William E. Bixby, 18 Lakeview Ave., Haverhill; John H. Linehan, 2 Haskell St., Beverly; E. Bertram Newton, Hotel Vendome, Boston; George H. Young, 10 North Tenth Ave., Mount Vernon, N. Y.

NORWICH, CONN.—The Consolidated Railway Co., of New Haven, has begun preliminary operations for the construction of an electric railway from Norwich through Jewett City and Plainfield to Central Village, where the road will connect with the Danielson, Webster & Putnam Division of the company's system. This line will be the connecting link of a continuous trolley system from New London, Willimantic and Norwich to Worcester and Boston. The route for the most part will run close to the Norwich & Worcester Division of the New York, New Haven & Hartford Railroad. Very little grading will be required, as the roadbed of the steam railroad can in many instances be broadened without difficulty. The trolley will parallel the steam road from Central Village to Taftville, where it will effect a junction with the Norwich St. Ry. Co.'s system. H. Bigelow, Supt., at Norwich.

ROCHESTER, N. Y.—The Rochester, Corning & Elmira Traction Co. has been incorporated with a capital of $4,000,000, to operate a street surface electric road 120 miles long, from Mount Hope and Elmwood Aves., Rochester, to State and East Water Sts., Elmira, passing through Monroe, Livingston, Steuben and Chemung Counties and connecting various cities and villages in those counties. The principal office of the company is at No. 42 Broadway, New York City. The directors are Max H. Schultze, C. O. Geer, Frederick Eckstein, Samuel M. Levy, Henry Brunssen, Harry Velthusen, Horace G. Abel, Henry H. Kaufman and Tracy S. Breckingham, of New York City.

DOLGEVILLE, N. Y.—It is reported that the Dolgeville R. R., an industrial road, extending from Little Falls, N. Y., to Dolgeville, ten miles, has been purchased by the New York Central R. R. Co., and that the line will be electrically equipped and extended ten miles to Canada Lake, a summer resort.

TRENTON, N. J.—At a recent meeting of the directors of the Trenton, Hamilton & Ewing Traction Co., a subsidiary of the Trenton Street Ry. Co., it was decided to build the line to Hamilton Sq. this year, and not wait until next spring, as had previously been decided. The new arrangement was made at the solicitation of the residents of the township and the owners of the building lots and manufacturing site near the Interstate Fair Grounds. P. E. Hurley is Gen. Mgr., of Trenton Street Ry. Co., at Trenton.

SOUTH BETHLEHEM, PA.—The South Bethlehem & Saucon Elec. Ry. Co. has been incorporated in Pennsylvania, with $42,000 capital, to build a line seven miles long, from South Bethlehem to Centre Valley, where connection is to be made with the Philadelphia line of the Lehigh Valley Transit Co. The stockholders are C. P. Hoffman and William H. Lauer, of South Bethlehem; U. H. Wieand, of Emaus, and Hugh E. Crilly, P. F. Cannon and T. H. Mulligan, of Allentown.

CHRISTIANSBURG, VA.—M. H. Tompkins is reported to have been granted a franchise for a street railway in Christiansburg. In Cambria a similar franchise has been granted to E. S. Hagan.

NORFOLK, VA.—The SOUTHERN CONTRACTING CO. has been given the contract to build four miles of double track for the Norfolk, Portsmouth & Newport News Co. from Ocean View to the Jamestown Exposition grounds at Sewell's Point, it is reported. E. C. Hathaway is Gen. Mgr., at Norfolk.

FAIRMOUNT, W. VA.—GUTHRY & ARMSTRONG, of Columbus Ohio, are reported to have contract for grading line for the Fairmount & Clarksburg Traction Co.

WAYCROSS, GA.—The Bailey Manufacturing Co. will construct a tram-road to its timber tracts.

NEWNAN, GA.—The stockholders of the Bordon-Wheeler Springs property are reported to have decided to spend $50,000 for improvements, including the construction of an electric railway from the railroad station to the hotel.

NEW IBERIA, LA.—W. B. Conery, of New Orleans, proposes to build an electric railway from New Iberia to Franklin, with another section westward, touching St. Martinville and Lafayette, it is reported. The City Council recently held a special session and passed an ordinance unanimously giving Mr. Conery and associates a franchise for operating a street railway in this city for 25 years. New Iberia will be the center of the system, which will take in the country east to Franklin 25 miles, and west about the same distance.

MEMPHIS, TENN.—Application for a county franchise has been made by the Lakeview Traction Co., of which Thomas Taggart, of Indianapolis, Ind., is Pres. The request was made for the privilege of locating and maintaining for a period of 35 years a single and a double track, poles and other equipment necessary in the proposed electric line from here to Clarksdale, Miss. This line will touch at Lakeview, Miss., a summer outing place, where, [illegible]s said, there is to be created a casino, w[illegible] all sorts of amusements provided for pa[illegible]s of indoor and outdoor sports.

TOLEDO, OHIO.—It is said [illegible]at the Maumee Valley Rys. & Light [illegible] of Toledo, will extend its line from Wate[illegible]ille to Grand Rapids, Ohio. L. E. Bellst[illegible] Toledo, is Gen. Mgr.

INDIANAPOLIS, IND.—The Indianapolis, New Castle & Toledo Electric Ry. Co. has awarded the contract for the entire construction of buildings and roadbed to the ELECTRICAL INSTALLATION CO., of Chicago. Complete Allis-Chalmers power and electrical equipment will be installed in the main power station and three rotary converter substations, which will be built at once, the building of the remaining substations being delayed until later. The equipment for the main power station will, for the present, consist of two 1,0[illegible] KW. Allis-Chalmers turbo-generators to operate at 175 lbs. steam pressure and 50° F. superheat, the electrical ends of these units being wound for 25 cycles, 3 phase, 2,300 volts. The company will operate a line of electric railway between Indianapolis and New Castle, Ind., as the main terminals, with branch lines, the total mileage of which is [illegible] follows: Indianapolis to New Castle, 45 miles; Maxwell to Greenfield, five miles; Shirley to Anderson, 16 miles; New Castle to Muncie, 20 miles; New Castle to Winchester, 28 miles; New Castle to Richmond, 26 miles; total, 140 miles. The location of the new system is quite as favorable as that of a majority of the present well-paying properties of Indiana. A private right-of-way, 50 ft. wide, and terminal facilities are controlled by the company. In addition to the passenger traffic, the company's franchise permits the transportation of freight without any restriction. The engineering features of the road include the building and equipment of a main power station, located near New Castle, and ten permanent and one portable substation, one substation being installed in the main power plant building. The contemplated use of a portable substation is in keeping with well-established recent practice in general electric railway service. There are many interurban systems of which portions are liable at times to exceptionally severe loads, and the portable station is proving very useful in dealing with them. It can very readily be shifted from town to town, as occasion requires, following up the shifting of spare cars and supplying additional power even at somewhat severe loss in the high-tension feeders.

GRAND RAPIDS, MICH.—Dugald C. Jackson and William B. Jackson, of Madison, Wis., have been engaged as constructing engineers for the Grand Rapids, Hastings & Battle Creek Interurban Railroad. The surveying party in charge of C. M. Rich, Engr., has completed the location of the line from this city to Dowling, a village nine miles south of Hastings.

CHICAGO, ILL.—The Chicago City Railway Co. has obtained a loan of $3,000,000 from a syndicate composed of Chicago banks. The money will be spent in trolleyizing and improving the lines, and will be expended in the following manner: New cars, $650,000; trolleyizing, placing of feed wires, etc., $600,000; purchasing power during negotiations with city, $750,000; building substations for power and re-equipping old cars, $800,000; incidentals, including installation of transformers, etc., $200,000; making up the total of $3,000,000. E. K. Boisot, Vice-Pres. of the First Trust & Savings Bank, which negotiated the loan, has stated, according to press reports, that "the banks represented in the loan have ample security in the tangible property of the company, which is estimated to be worth $20,000,000. But there is another element in the loan; the banks believe the good sense of the people of Chicago is an element, and notwithstanding the agitation of the question of municipal ownership, there is every indication that it is good service that the people demand, and not city ownership."

LAKE FOREST, ILL.—City has passed an ordinance granting a new franchise to the Chicago & Milwaukee Electric R. R. Co. This ordinance has been pending before the council for the last two years. Mason B. Starring is Gen. Mgr., at 2020 State St., Chicago.

BOONE, IOWA.—John W. Budd, C. E., Des Moines, Iowa, and T. C. Regan, of the Regan Construction Co., Perry, Iowa, have gone over route of proposed electric railway line from Boone to Webster City. This section is rich agricultural land, all level except near Boone River, where it is quite hilly for a few miles. Throlgh this section, about twelve miles of Webster City is fine paving brick shale and bituminous coal deposits. Estimated cost of the project is $500,000.

BOONE, IOWA.—J. G. WHITE & CO., 49 Exchange Pl., New York, have contract for constructing line of the Des Moines, Fort Dodge & Southern Ry. Co. from Des Moines to Fort Dodge. Noted on July 19.

CHANUTE, KANS.—The Southern Kansas Railway, Light & Power Co. has been organized to construct a single-phase interurban railway system in southeast Kansas and southwest Missouri. The capital stock of the company is $4,000,000. The officers are: R. C. Rawlings, Pres., Chanute, Kans.; J. W. T. Stephens, Vice-Pres., New Orleans, La.; L. Rosenthal, Treas.; F. C. Dixon, Secy., and J. J. Jones, all of Chanute, Kans. This road is to start at Chanute and run from there to Thayer, Parsons, Mineral, Scammon, Columbus, Galena, in Kansas; thence to Joplin, Webb City, Carterville, Carthage, in Missouri. A spur will extend also from Parsons to Cherryvale, Independence and Coffeyville, Kans. The length of this projected line is 160 miles. It passes through rich soil and gas fields, thence across a fine farming country, thence across a coal belt, and from that into the great zinc and lead producing district of Missouri. The main power plant will be located at Chanute, with substations located as desired. The road will be equipped for the handling of both passenger and freight traffic, and a large volume of freight business has already been pledged. The company's plans also include the equipping of five pleasure parks at different points along the route. The topography of the country to be traversed by the proposed railway is such that the cost of grading will be comparatively low.

LITTLE ROCK, ARK.—W. D. Atwood, Pres. of the Bank of New Edinburg, is reported to be interested in project to build an electric railway in southeastern Arkansas which will touch Little Rock, Hot Springs, Arkadelphia, Camden, El Dorado, Felsenthal, Crossett, Hamburg, Monticello, Cornersville, Star City, Varner, Pine Bluff, Jefferson Springs and Redfield. The road is to be known as the Atwood Electric Circle Car Line.

DALLAS, TEX.—Concerning the plan to build an electric railway to connect Dallas, Greenville and Denison, Tex., besides other points, J. Mercer Carter and associates will organize the Dallas Interurban Electric Ry. Co., capital $1,500,000, with first mortgage 30-year gold bonds, stock and bonds to be limited to $30,000 per mile. Work is to begin within 90 days and pushed to completion of the first 85 miles. About 17 miles main line are to be in city, with six miles of double tracks. They are also organizing the Union Construction Co. with a capital of $500,000 to build railroads and railroad bridges.

TRINIDAD, COLO.—The Trinidad Electric R. R. Co. will build an extension to Riley Canyon, a distance of five miles. Frank P. Read is Pres.

WEATHERFORD, OKLA.—The Weatherford Interurban Railway & Light Co. is chartered to build lines from Weatherford to Taloga, 75 miles; from Weatherford to Cheyenne, 70 miles; from Weatherford to Hobart, 75 miles, and from Weatherford to Anadarko, 75 miles. The directors are Dr. Robert Wade, Chas. C. Penn, A. P. Sights, W. P. Fowler and W. W. Brown, all of Weatherford. Capital is $500,000.

SEATTLE, WASH.—R. H. Thomsen, City Engr., has filed plans with the City Council for a municipal street railway system. On Sept. 18 the city will vote upon this proposition. The system, which will cover every part of the city, even paralleling the present tracks of the Seattle Electric Co., will cost $5,572,940. Of this sum $1,272,000 will be a bond issue secured by the city's general fund, and the balance of the money necessary will be borrowed on bonds secured by the earnings of the system and the general fund. At the same election the question of issuing $2,250,000 in bonds to increase the municipal water system will also be voted on.

BAKER CITY, ORE.—The Oregon Northern R. R. Co. will build an electric railway from Baker City to John Day River, 170 miles long, via Blalock, Arlington and Parker. W. J. Mariner, Blalock, Ore., is Pres. and G. W. Winkle, Walla Walla, Wash., is Ch. Engr.

FRESNO, CAL.—A. G. Wishon, Gen. Mgr. and Vice-Pres. of the Fresno Traction Co., writes us that surveys are not yet completed for proposed extension to Yosemite, Cal., and that no contracts will be let until then. Company operates 16 miles of line. R. S. Wasson is Ch. Engr.

SAN BERNARDINO, CAL.—We are advised officially that the San Bernardino Valley Traction Co. will build a 7-mile extension from this city to Arrow Head Hot Springs. Surveys have been completed and right-of-way secured. P. B. Harris is Ch. Engr.

PALO ALTO, CAL.—W. H. H. Hart has been granted a franchise for a street railway system in Palo Alto. Financial arrangements for building the line have been made.

SALT LAKE CITY, UTAH.—The Salt Lake & Ogden Ry., which extends from Salt Lake City to Bonneville, Parkins, Bountiful, Centreville, Farmington and Lagoon, 16 miles, will electrify its line, it is said, and build an extension to Ogden. E. A. Vail is Ch. Engr., at Salt Lake City.

EDMONTON, ALTA.—The Prince Albert Electric Ry. Co. will let contracts for building its line as soon as franchise is granted. The line will be three miles long, along River St., with a belt line to new station. Surveys are made and right-of-way and capital secured. W. S. Weeks is Pres. and W. Wiley is Ch. Engr., both of Edmonton.

HAMILTON, ONT.—The contracts for the construction of the Brantford & Hamilton Electric Ry. have been awarded as follows: 80-lb. steel rails to the DOMINION STEEL CO., Sault Ste. Marie; ties to the MANITOULIN LUMBER CO., of Windsor; electrical supplies to the CANADIAN WESTINGHOUSE CO., of Hamilton. The company has offices in the Chancery Chambers, in this City. I. K. Pierson is Ch. Engr.; Elmer T. Haines, Secy.; J. W. Nesbit, Solicitor; Agnes Geddes, Treas.

WINDSOR, ONT.—The Windsor, Essex & Lake Erie Ry. Co. will build a 1-mile spur line through Leamington. Contracts probably will be let in September.

BRANTFORD, ONT.—Bids are reported to have been asked by the Grand Valley Ry. Co. for building a 26-mile extension to Woodstock. The railway now connects Brantford with Paris, Glen Morris and Galt. F. W. Steele is Ch. Engr., at Blue Lake, Ont.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BRIDGEPORT, CONN.—The Connecticut Railway & Lighting Co. has awarded the contract to the H. WALES LINES CO., of Meriden, Conn., for the construction of its power plant, on Seaview Ave. J. E. Sewell is Gen. Mgr.

DANBURY, CONN.—The contract for the construction of a cooling station, to be erected by the New York, New Haven & Hartford R. R. Co. at this place has been awarded to the FAIRBANKS CONSTRUCTION CO., of Chicago. The structure is to be 32 x 132 ft., and is to be equipped with hoisting apparatus and overhead dumps. The hoisting device is to be operated by electricity.

NEW YORK, N. Y.—Bids are asked until noon, Aug. 17, by the Department of Public Charities for wiring and lighting the buildings on Randall's Island. Robert W. Hebberd, Comr.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Aug. 30, by the Park Board for framing gas and electric fixtures in parade ground building, Prospect Park, Borough of Brooklyn. Moses Herrman, Pres.

NEWARK, N. J.—The City Council has adopted resolution approving recommendation of Runyon & Carey, Engrs., Newark, for the installation of a municipal lighting plant.

WILLIAMSPORT, PA.—Bids are asked by the Citizens' Electric Co. for building a one-story electric light plant; to be built of concrete. Estimated cost, $50,000. F. Alexander, Supt.

WILMINGTON, DEL.—A franchise to engage in the gas and electric light business in this city has been granted to the Commercial Light & Power Co.; $50,000 was given for the privilege.

HYATTSVILLE, MD.—The contract for installing an electric light system has been awarded to the POTOMAC ELECTRIC POWER CO., of Washington, D. C., at $12 per year for 30 c. p. incandescent street lamps, and $65 per lamp per year for arc lamps. The contract will extend over a period of ten years, and the town will probably contract for 150 incandescent lamps. Bonds to the amount of $12,000 were recently sold for this improvement.

WASHINGTON, D. C.—The committee appointed to consider the bids received Sept. 30, 1905, for the machinery and other equipment for the power house intended to provide light, heat and power for the Capitol, and Senate and House Office Buildings, has decided to reject all the bids as unsatisfactory. The Arch. of the Capitol has been instructed to prepare new plans and specifications and invite proposals under them. The government is erecting the building and will install in it the most modern and comprehensive heating, lighting and power plant that can be obtained. The committee that had to consider the bids was composed of Speaker Cannon, Representative W. P. Hepburn, of Iowa, and former Representative J. D. Richardson, of Tennessee.

MANASSAS, VA.—See under Water-Works.

NORFOLK, VA.—Bids were received on Aug. 4 by Bureau of Yards and Docks, Navy Dept., for power plant machinery at navy-yard, as follows: The Scofield Co., Philadelphia, Pa., (Item 1) $249,000; (Item 2) $248,849 (A), $248,349 (B), $248,014 (C); (Item 13) $238,863. General Electric Co., Schenectady, N. Y., (Item 8) $107,210; (Item 13) $104,860. Ricketts Engineering Co., Washington, D. C., (Item 4) $61,750; (Item 6) $56,425; (Item 9) $21,100; (Item 10) $26,250; (Item 12) $4,250; (Item 13) $1,705 (A add to Item 6), $500 (B deduct Items 4 and 6), $500 (C deduct Items 4 and 6), $1,500 (D deduct Items 4 and 6). D'Olier Engineering Co., Philadelphia, Pa., (Item 1) $232,300 (deduct $11,500 conditionally), $236,300 (deduct $11,500 conditionally). Babcock & Wilcox Co., New York, N. Y., (Item 3) $55,265; (Item 4) $63,156; (Item 5) $55,804 and $54,870; (Item 6) $63,605 and $62,760. Ingersoll-Rand Co., New York, N. Y., (Item 11) $44,752 (A), $45,650; $46,996 (B), $47,894; $48,908 (C), $48,806; $40,422 (D), $41,370; $43,412 (E), $44,360; $44,202 (F), $45,000; $40,372 (G), $41,270; $36,234 (H), $37,182; $42,072 (I) $43,020. Westinghouse Electric & Mfg Co., Baltimore, Md., (Item 8) $91,995; (Item 11) $37,960. A. D. Granger Co., New York, N. Y., (Item 3) $64,354; (Item 4) $65,354; (Item 5) $67,354; (Item 6) $68,354. Laidlaw-Dunn-Gordon Co., New York, N. Y., (Item 11) $39,248 (A). $40,250 (B), $42,700 (C), $15,500 (D). Henry R. Worthington, New York, N. Y., (Item 9) $32,750 (A); (Item 10) $31,750 (A), $31,250 (B), $30,925 (C).

CHARLESTON, S. C.—Bids are asked until 11 a. m., Sept. 1, by Bureau of Yards and Docks, Navy Dept., Washington, D. C., for electric wiring and lighting in joiner shop, navy yard, Charleston. Specifications for this work are on file at office of Engineering News, New York. Mordecai T. Endicott, Ch. of Bureau.

CHARLESTON, S. C.—Bids were received on Aug. 11 by Bureau of Yards and Docks, Navy Dept., for central power station, as follows: Penn Bridge Co., 312 Bond Bldg., Washington, D. C., (Item 1) $214,887; (Item 2) 25 cts. sq. ft. engine and B. room floor; 19 cts. sq. ft. basement floor; 42 cts. cu. yd. filling; $5.25 each, piling; $6.50 yd. concrete in pier; (Item 3) $20,400. deduct; (Item 4) $300, deduct; (Item 5) $800, deduct; (Item 6) $1,500, deduct; (Item 7) $3,140, deduct; (Item 8) $28,000, add; (Item 9) $1,200, deduct; (Item 10) $10,000, deduct; (Item 11) $11,000, deduct; (Item 12) $6,700, deduct; (Item 15) $10,000, deduct; (Item 16) $29,400, deduct; (Item 17) $30,800, deduct; (Item 18) $41,000, deduct; (Item 19) $52,900, deduct. New York Continental Jewell Filtration Co., 35 Wall St., New York, N.Y., (Item 1) $289,162; (Item 2) 70 cts. cu. yd. fill; $7 each, piles; $7.50 cu. yd. concrete; 4½ cts. lb. structural steel; floor construction, 25 cts. sq. ft. reinforced concrete; floor construction, asbestolith, 32 cts. sq. ft. finish; 20 cts. sq. ft. basement floors; (Item 3) $23,188, deduct; (Item 4) $1.816, deduct; (Item 5) $1,561, add; (Item 6) $2,888, deduct; (Item 7) $3,983, deduct; (Item 8) $24,508, add; (Item 9) same price as Item 1; (Item 10) $10,000, deduct; (Item 11) $9,700, deduct; (Item 12) $7,975, deduct; (Item 13) $9,905; (Item 14) same as Item 1; (Item 15) same as Item 1; (Item 16) $34.844. deduct; (Item 17) $34,957, deduct, (Item 18) $50.715, deduct; (Item 19) $67,623, deduct; (Item 20) $85,041. Simons-Mayrant Co., 16 Broad St., Charleston, S. C., (Item 1) $223,670; (Item 2) 44 cts. cu. yd. filling; $5.50 each, piles; $7.70 cu. yd. concrete foundation; 4 cts. lbs., steelwork; $9 cu. yd., concrete floor; 44 cts. sq. yd., granolithic finish; $4.50 sq. yd., asbestolith finish; (Item 3) $21,500, deduct; (Item 4) $2,000, deduct; (Item 5) $4.000, deduct; (Item 6) $1,500, deduct; (Item 7), $4,800, deduct; (Item 8) $13,000, add; (Item 9) $3,300, deduct; (Item 10) $11,300, deduct; (Item 11) $9,000, deduct; (Item 12) $6,537, deduct; (Item 13) $7,190; (Item 14) $1,100, deduct; (Item 15) $16,000, deduct; (Item 16) $31,000, deduct; (Item 17) $31,300, deduct; (Item 18) $44.000, deduct; (Item 19) $57,500, deduct; (Item 20) $6,600, deduct; $1,500, add if frieze is terra cotta.

CEDARTOWN, GA.—The city is contemplating the construction of a complete electric plant, consisting of new engines, generators, switchboards and arc lighting system. W. D. Irey is Supt.

WEST POINT, GA.—The West Point Mfg. Co. is to replace the water-power plant by a water-power electrical installation.

TAMPA, FLA.—The Tampa Electric Co. has commenced preparations for the construction of a large power-house on the Hillsborough River. G. W. Wells is Local Mgr.

ANDALUSIA, ALA.—The Andalusia Light & Water Co. will make extensive improvements and additions to its power-plant. The company will soon install a 120-HP. Harrisburg engine, and a 70-KW., 2,300-volt General Electric generator with switchboard equipment. J. H. Morgan is Supt.

ANNISTON, ALA.—The cost of installing a municipal electric light plant in this city has been estimated at about $30,000.

GREENVILLE, ALA. — The Henderson Light & Power Co. contemplates putting in a day service, and will install a 35-KW. generator; also engine and boiler of sufficient capacity to operate the same. C. C. Henderson is Prop. and Mgr.

LAFAYETTE, LA.—The City Council has appointed a committee to advertise for bids for an extension of arc lights, about 90 in number, at an approximate cost of $10,000; an extension of the water-works system to cost about $7,000, and the construction of a new brick power house for the plant at about $5,000, etc.

NEW ORLEANS, LA.—Bids were received on Aug. 4 by Navy Department for chimney for power-house at naval station, as follows: Weber Steel Concrete Chimney Co., Chicago, Ill., (Item 2) $5,650; (Item 4) $5,275. Heine Chimney Co., Chicago, Ill., (Item 1) $8,746. H. R. Heinicke, Inc., New York, N. Y., (Item 1) $6,750; (Item 4) $5,750. Atlas Construction Co., St. Louis, Mo., (Item 2) $5,180. Alphons Custodis Chimney Construction Co., New York, N. Y., (Item 1) $7,520; (Item 2) $7,240; (Item 4) $7,145 (A), $6,310 (B).

FRANKFORT, KY.—The Central Kentucky Traction Co. has purchased a building site for $7,500, and will erect a power plant in the near future.

LOUISVILLE, KY.—The Louisville Lighting Co. has been granted a permit to erect a 2 and 3-story reinforced concrete and brick building on Third Ave., to be used as a substation. Estimated cost, $14,000.

CINCINNNATI, OHIO.—Plans have been completed for a pumping and condensing station to be erected adjacent to the East End power station by the Cincinnati Traction Co. The general capacity of the station will also be increased.

COLUMBUS, OHIO.—Site has been secured and plans prepared for proposed union electric railway station in this city.

CLEVELAND, OHIO.—Bids are asked until Aug. 17, by the Board of Public Service, for furnishing and erecting on foundations at the Cleveland municipal electric plant two mechanical stokers complete and ready for connection to piping; also one condenser unit complete. A. R. Callow, Secy.

The Harris Acetyline Gas Co. has been incorporated here with a capital of $150,000. Among the incorporators are John Harris, who perfected the use of acetyline; Edward Sawyer, Philip Gleichman and Frederick Eberhardt.

The Municipal Traction Co. is going to erect its power house on the Cuyahoga River. The building is to be 120 x 360 ft. A. B. Dupont is Mgr.

GEORGETOWN, OHIO.—Bids are asked until 1 p. m., Sept. 6, by the Board of Trustees of Public Affairs for the construction of a power house, electric machinery and equipment. W. A. Eylar, Clk.

BLUFFTON, IND.—It is reported that J. A. Grove and others have obtained a franchise for the construction of a heating plant in this city.

COLUMBUS, IND.—The Columbus St. Ry. & Light Co. is preparing to build a new power plant.

STANDISH, MICH.—The H. M. Loud Co. has obtained by lease and by purchase 100 miles of land lying on either side of the Au Sable River and branches from Au Sable and Oscoda up the stream, and will furnish these towns and others along the Lake Huron shores with electric power.

PEORIA, ILL.—Plans are being prepared for the improvements to be made by the Peoria Gas & Electric Co. Supt. Schmidt has reported that the company would spend at least $250,000 this year in improvements, in addition to the $300,000 which will be spent in placing the wires of the company under ground.

PORTAGE, WIS.—Work will soon commence on the new dam below the Dells of the Wisconsin River, which is to be constructed by the Wisconsin River Power Co. The company will develop not less than 10,000 HP., and has let contracts for four units of 2,500 HP. each. The company expects to have its plant in operation by April, 1907. The Portage Electric Light Co. has contracted for 2,500 HP., and will control the output of the power company in this city. The I. W. York & Co. flour mills and the Wisconsin Cement Co. have made arrangements to obtain electricity from the plant when completed to operate their mills.

GIBBON, MINN.—Bids are asked by the Council of Gibbon, Minn., until 9 a. m., Aug. 18, for the construction of an acetylene gas plant, in accordance with plans and specifications by J. F. Johnson. W. F. Lammers, Recorder.

FORT LEAVENWORTH, KANS.—Bids are asked by the Quartermaster until 11 a. m., Aug. 20, for furnishing and installing electric fixtures and watt meters in certain buildings, and extending the electric lighting system at Fort Leavenworth, Kans. Capt. J. E. Normoyle, Q. M.

FREMONT, NEBR.—This city will build an electric light plant at a cost of $40,000, for which bonds will be issued.

WILLISTON, N. DAK.—At an election held recently the citizens voted in favor of installing an electric light and water-works system at a cost of $27,000.

MISSOULA, MONT.—M. R. Rutherford, of this city, is endeavoring to procure an electric light franchise in Plains. If a franchise is granted Mr. Rutherford will construct an electric light plant at a cost of about $5,000.

CLINTON, MO.—See under Water-Works and Irrigation.

SPRINGFIELD, MO.—Dr. B. E. Joseph has been granted a charter under the laws of Arkansas for establishing a power-plant on the White River in Boone County, Ark.

ST. LOUIS, MO.—The Anheuser-Busch Brewing Co. will construct an electric light plant at a cost of $30,000.

The West End Business Men's Association is contemplating the establishment of a municipal lighting plant.

MARCELLA, ARK.—Thomas M. Hess is preparing to build a dam across Mill Creek, one mile distant, to obtain power for operating saw and grist mill. The installation of private water and lighting system is also being considered.

WELEETKA, IND. T.—The City Council has granted to George Mittendorf a franchise to erect a light and power-plant.

PUEBLO, COLO.—The Pueblo & Suburban Traction & Lighting Co. is remodeling its plant entirely. The company will install two General Electric generators, of 1,100 KW. capacity, 2,300-volt, 3-phase, 60-cycle, one Rice & Sargent cross compound condensing engine of 1,200 HP. capacity. The new machinery and auxiliaries will cost about $75,000. John F. Vail is Mgr.

TACOMA, WASH.—The Tacoma (Wash.) Gas & Electric Co. has been sold to Deane & Co., of Grand Rapids, Mich., the price paid being approximately $1,000,000. Manager Brewer, of the company, announces for the company that a reduction to $1.25 per 1,000 cu. ft. will be made, and a new water gas plant will be installed. Many extensions will be made.

The Commissioners of Pierce County will consider the application on Aug. 17 of the Tacoma Ry. & Power Co. to construct a single-pole transmission line in Pierce County, Wash.

PORTLAND, ORE.—All the electric wires and cables of the Portland General Electric Co. will be placed under ground in the business districts of the city in the near future. Engineers of the company are now preparing plans for the proposed underground conduit system, which will be presented to the City Council within the next 60 days. It is proposed that these plans, if acceptable, will be incorporated in an ordinance which will affect all electric light and power companies operating in the city. It is estimated that the outlay for placing the wires under ground will be not less than $500,000.

FRESNO, CAL.—Preparations are being made by the San Joaquin Light & Power Co. for the construction of two power plants on the Tule River. Permanent surveys were completed Aug. 1. The first plant will have a capacity of 6,000 HP. and the second 4,000 HP. The Tule River plants will be made part of the same system as the North Fork plants. With the four plants on the San Joaquin and the two on the Tule River the capacity will be between 30,000 and 35,000 HP.

PALO ALTO, CAL.—George Parkinson, Treas., has received from Otis & Haugh, of Cleveland, Ohio, $79,725, realized from the sale of municipal bonds. This money is to be used to reconstruct the municipal water and light plant. $50,000 has been allowed for the power-plant.

SHUSWAP, B. C.—The Province of British Columbia has granted a charter to the Shuswap Power Co., which will construct a plant estimated to cost $100,000.

GREENWOOD, B. C.—The city has been granted a charter by the Government of British Columbia to build a $30,000 power plant at Boundary Creek Falls. A dam will be constructed, also a generating plant with a 250-HP. water-wheel.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

NEWTON, MASS.—We are officially advised that contract for building bridge over the Charles River, having two 38-ft spans, has been awarded to WILLIAM H. MORGAN, at $14,786. Irving Farnham is City Engr.

MANCHESTER, CONN.—It is reported that the Town of Manchester will build two new bridges, one over the Hockanum River at Oakland, $5,500, and the other at the foot of McLean Hill, $6,000.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Aug. 30, by John H. Little, Deputy Comr. of Bridges, for tile work at the Manhattan terminal of the Brooklyn Bridge.

PHILADELPHIA, PA.—Bids are asked until noon, Aug. 28, by Thomas L. Hicks, Dir. Dept. Pub. Wks., for constructing bridges. Schedule A. There will be double track railway bridges at Mount Pleasant Ave., Gorgas and Philellena Sts., a concrete arch at Cresson St. and a reinforced concrete arch at 58th St. Thomas L. Hicks is Dir. Dept. of Pub. Wks. (Advertised Engineering News.)

LANCASTER, PA.—We are officially advised that the bids received for constructing concrete dam, bridge piers and superstructure at Lancaster were: R. A. Malone, $19,880; Reilley & Riddle, $20,426.

WILLIAMSPORT, PA.—Bids are asked until Aug. 21 by the Board of County Commissioners, J. P. McConnell, Chn., for constructing several steel bridges in this county.

WASHINGTON, D. C.—Bids are asked until noon, Aug. 18, by the Commissioners of the District of Columbia, for furnishing railing for the Connecticut Ave. bridge. (Advertised Engineering News.)

Plans are being prepared in the office of the Engineer of Bridges for construction of a plate girder bridge over Rock Creek on K St., N. W., to cost about $30,000.

PARKERSBURG, W. VA.—The Parkersburg Bridge Co. has been incorporated with a capital of $50,000. It will build a bridge across the Little Kanawha River. Chas. H. Shattuck, Sprigg D. Camden, Thomas Logan, J. W. Camden and R. Blizzard are the incorporators.

WHEELING, W. VA.—It is reported that plans and specifications will be completed about the middle of August for the proposed bridge of the Bellaire, Benwood & Wheeling Bridge Co.; probable cost of bridge, $350,000. The officers of the company are: J. H. McCrady, Pres., Braddock, Pa.; R. M. Gilleland, Vice-Pres., Wheeling; Albert Lucius, Engr., Potter Bldg., New York, N. Y.

NEW ORLEANS, LA.—It is stated that E. T. Hardee, City Engr., has been authorized to prepare plans for bridge to be erected at Esplanade St. at a cost of $40,000, replacing present structure.

LEXINGTON, MISS.—We are officially advised that on Aug. 4 the AMERICAN BRIDGE CO., 42 Broadway, New York, N. Y., secured contract to construct the superstructure of a 3-span bridge, to be built at Tchula. The contract price is $4,488. Parham Williams is City Clk.

INDIANOLA, MISS.—It is reported that Sunflower County will erect a draw bridge over Sunflower River, near Lehrton, for which the Board of Supervisors will receive bids soon.

CHATTANOOGA, TENN.—The Board of Public Works has let contract, at $11,175, for constructing the Eleventh St. bridge to the AMERICAN BRIDGE CO. J. T. Rose, Atlanta, Ga., is Contracting Mgr. Robert Hooke is City Engr.

LEXINGTON, KY.—Kentucky Bridge Co., 140 West Short St., recently incorporated, will construct a wooden bridge, 180 × 80 ft., expending about $25,000.

CUMBERLAND FALLS, KY.—The MASON, HANGER & COLEMAN CO. has contract at about $223,000 for constructing bridges Nos. 66 and 67 and tunnel No. 10 in open cut for the Cincinnati Southern Ry. Co.

MUNFORDVILLE, KY.—The Munfordville Bridge Co. has been organized here with W. B. Craddock, Pres.; H. W. Curle, Vice-Pres.; George D. Mentz, Treas., and D. A. McCandless, Secy. The purpose is to build a bridge over Green River at this town. The company is capitalized at $30,000.

BRADRICK, OHIO.—Bids are asked until Aug. 25 by the Board of Commissioners, Ironton, for constructing steel highway bridge across Guyan Creek. J. T. Egerton is County Engr.

FREMONT, OHIO.—It is reported that the Wheeling & Lake Erie R. R., the Wabash R. R. and the Lake Shore & Michigan Southern Ry. companies are preparing to erect an overhead bridge at the Buchanan St. crossing in this city.

TOLEDO, OHIO.—It is reported that the Council Committee on Public Improvements has passed a resolution instructing the Osborne Engineering Co. to prepare an estimate for a viaduct over the River at Cherry St. Frank I. Consaul is Ch. Engr. Bd. Pub. Service.

CINCINNATI, OHIO.—We are officially advised the CLEARY CONSTRUCTION CO., of Indianapolis, Ind., has been awarded contract for constructing substructure of the Harrison Ave. viaduct, at $59,243. The engineer's estimate was $67,486. M. J. Keefe is Clk. Bd. Pub. Service. Noted on Aug. 9.

ORWELL, OHIO—We have been officially advised that on Aug. 6 R. P. BURNETT, Cleveland, secured contract, at $11,600, for constructing reinforced concrete bridge at Orwell. P. C. Remick, Jefferson, is County Audr.

RUSHVILLE, IND.—We are officially informed that KELLEHER & SHIPHLER, Frankfort, Ind., have contract for constructing two 45-ft. concrete arches, at $4,439. A. L. Stewart is Des. Engr.

BLUFFTON, IND.—It is reported that the Commissioners of Wells County will soon ask for bids for the construction of a bridge over the Wabash River north of the city, the old bridge having been condemned.

MOUNT VERNON, IND.—We are officially informed that on Aug. 10 Amos Pol, Evansville, Ind., submitted the lowest bid for constructing culvert at Mill Creek, his bid being $8,900. Silas G. Howard is County Audr.

NEWCASTLE, IND.—We have been officially advised by John M. Bundy, County Audr., that the PAN-AMERICAN BRIDGE CO., Newcastle, has been awarded contract to construct seven small concrete and steel bridges, at $3,821.

GRAND RAPIDS, MICH.—Bids are asked until 2 p. m., Sept. 7, by the Board of Public Works, James E. Keegan, Pres., for constructing two abutments and three piers for the Ann St. bridge across Grand River, at Grand Rapids. L. W. Anderson is City Engr. (Advertised Engineering News.)

ESCANABA, MICH.—Bids are asked until Sept. 4, for three bridges. We are officially advised that the abutments are to be of stone and the superstructure will have steel beams. D. A. Brotherton is City Engr.; T. J. Burke is City Clk.

GENESEO, ILL.—Bids are asked until Aug. 21, by the Local Commissioners, for constructing three 140-ft. span bridges, one 50-ft. span approach and one 156-ft. span. Bids will be received on superstructure and substructure separately, as bidders may elect. A. N. Johnson is State Highway Engr., Springfield, Ill.

DECATUR, ILL.—The W. P. CARMICHAEL CO. has been awarded the contract to erect the $140,000 concrete bridge for the Wabash R. R. over the Sangamon River, near Decatur.

PEORIA, ILL.—Bids are asked until noon, Sept. 4, by E. A. Furry, Comr. Pub. Wks., for constructing concrete steel Melan arch bridge over the Illinois River at Peoria. (Advertised Engineering News.)

LANGDON, N. DAK.—Bids are asked until 1 p. m., Aug. 21, by the Commissioners of Cavalier County, Robert Work, County Audr., for building two bridges over the Little Pembina River.

BUTLER, MO.—E. B. Borron, Engr. of Bridges of Bates County, writes: "On Aug. 6 the contract with the KANSAS CITY BRIDGE CO., of Kansas City, Mo., for construction of 16 bridges in Drainage District No. 1, Bates County, was approved by the County Court. These bridges are: Two 140-ft. steel spans on steel tubular piers; nine 100-ft. steel spans on steel tubular piers; three 50-ft. wooden pile bridges and two 40-ft. wooden pile bridges. The contract price is $34,700. The contract, however, provides for the substitution of a different substructure for the nine 100-ft. spans at a lower figure in the event that the Court may deem it necessary."

PINE BLUFF, ARK.—A bridge, to cost $450,000, will be built across the Arkansas River here. The County Bridge Commissioners are Judge E. J. Kerwin, Leo M. Andrews and W. D. Hearn.

FORT WORTH, TEX.—It is reported that a concrete bridge will be constructed across the Trinity River at this city. John B. Hawley is City Engr.

DALLAS, TEX.—It is reported that Dallas Interurban Electric Ry. Co. will erect a steel bridge, span 300 ft. long, and one steel girder approach 340 ft. long in sections.

PORTLAND, ORE.—Bids are asked until 4 p. m., Sept. 7, by Thomas C. Devlin, Audr. City of Portland, for constructing bridge over Sullivan Gulch, at Grand St. Plans, specifications and bidding sheet are on file at office of Engineering News, New York. D. W. Taylor is City Engr. (Advertised Engineering News.)

SALEM, ORE.—Plans and specifications for a $6,000 reinforced concrete bridge across North Mill Creek, have been approved by the Council; bids will shortly be invited.

HAMILTON, ONT.—A steel bridge is to be built at Ferrie St., Hamilton, on a concrete foundation. The bridge will be built by the Grand Trunk Ry. System. Joseph Hobson, Montreal, Que., Ch. Engr.

PRICEVILLE, ONT.—Bids are asked until 2 p. m., Aug. 24, by John McArthur, County Councillor, for erecting steel bridge over the Saugeen River, between Artemesia and Glenely Townships.

HOLLAND LANDING, ONT.—Bids are asked until Aug. 24 by L. K. Jones, Dept. Railways and Canals, Ottawa, Ont., for building the superstructure of swing bridge on the Holland River section of the Trent Canal.

BRANDON, MAN.—We are officially advised that the CANADIAN BRIDGE CO., Walkersville, Ont., has secured contract, at $10,970, to erect the steel superstructure of a bridge at Brandon. W. D. Shillinglaw is City Engr.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—Congress has appropriated $75,000 for a new Post Office at Auburn.

ROCHESTER, N. H.—The plans submitted by George G. Adams, of Lawrence, Mass., for a new city hall to be built of stone and brick, cost not to exceed $65,000, have been accepted.

BOSTON, MASS.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Aug. 18, for constructing a corrugated steel and concrete extension of building at Navy Yard, Boston, Mass. Specifications are on file at the office of the Engineering News. Mordecai T. Endicott, Ch. of Bureau.

WHITMAN, MASS.—A town hall is to be erected here, at a cost of $100,000. It is to be constructed of brick and granite, and is to be 101 × 154 ft. Aaron H. Gould, 17 Milk St., Boston, Mass., is the Arch.

LAWRENCE, MASS.—James E. Allen, Arch., has been selected to draw the plans for the $50,000 Administration building for the Essex County Training School in this city.

NORTH ADAMS, MASS.—A new post office is to be built at this place.

NEW YORK, N. Y.—Plans for the following buildings have been filed with the Building Department:

Sixth Ave., 736 to 744, for a 6-story brick office building, 100.5 × 208 ft. Improved Property Holding Co., 320 Fifth Ave., owner. Maynicke & Franke, 298 Fifth Ave., Archs. Estimated cost, $350,000.

117th St., for three six-story brick flats, 44 7 × 87.1 ft. Harris Kahn, 230 East 87th St., owner; Neville & Bagge, 217 West 125th St., Archs. Estimated cost, $180,000.

153d St., 671 to 677, for two six-story brick tenements, 37.6 × 87 ft. Gluick & Allen, 1493 Madison Ave., owner; Edward A. Meyers, Arch. Estimated cost, $84,000.

St. Nicholas Ave. and 155th St., for a six-story brick flat, 59.3 × 91 ft. Gross & Herbener Realty Co., 45 West 95th St., owners; Neville & Bagge, 217 West 125th St., Archs.

The new kindergarten building of the New York Kindergarten Association, on West 42d St., New York City, of which Babb, Cook & Willard are the Archs., will be built upon a Raymond concrete pile foundation.

RAHWAY, N. J.—Bids are asked until Aug. 21 by George E. Poole, State Arch., Trenton, N. J., for an addition to the State Reformatory. It is to be of brick and steel, four stories high and 255 × 55 ft.

MILLVILLE, PA.—The contract for the construction of the municipal building has been awarded to JOS. KUNZ, of this place.

TRENTON, N. J.—Bids are asked until Aug. 23 by the Board of Education for a high and manual training school. It is to be a two-story brick and stone building, 152 × 130 ft. Estimated cost, $100,000.

ATLANTIC CITY, N. J.—Plans are being prepared for Josiah White & Bro. for an addition to the Hotel Traymore. It is to be a 9-story reinforced concrete building. Estimated cost, $600,000.

WILKES-BARRE, PA.—The contract for the erection of a hotel for Hugh Lawson has been awarded to H. J. MELAN.

The contract for the erection of an addition to the Hospital of The Sisters of Mercy has been awarded to A. HEDERBRAND, 173 Wood St. Estimated cost, $50,000.

BETHLEHEM, PA.—W. F. DANZIER & CO. have been awarded the contract for the erection of the new dormitories for Lehigh University. Estimated cost, $100,000.

NORTHAMPTON, PA.—Bids are asked by the Northampton Brewing Co. for a bottling house and stable. It is to be four stories high, of brick and steel, and 60 × 120 ft. Special equipment required.

PHILADELPHIA, PA. — A. RAYMOND RAFF 1635 Thompson St., has been awarded the contract for a bank building to be erected at Third and Arch Sts. by the Union National Bank. It is to cost $60,000.

THE WM. STEELE & SONS CO., 1600 Arch St., has been awarded the contract for the factory and office building at 1013 Arch St. for The Boyertown Burial Casket Co.

BALTIMORE, MD.—THE ENGINEERING & CONTRACTING CO., 309 North Calvert St., has been awarded the contract for a store and office building to be erected at 339-341 North Charles St. for M. White. It is to be a 5-story concrete building, 35 × 140 ft.

WASHINGTON, D. C.—BURGESS & PARSONS, 627 F St., N. W., Washington, have received the building contract for two residences, to cost $150,000, for Isaac and Albert Herman. The buildings will be situated on 16th St., between W and V Sts. N. W., and will be of brick, three stories high, 20 × 77 ft. each. A. P. Clark, Jr., 605 F St., N. W., Arch.

Wyeth & Cresson, Archs., 1517 H St., N. W., Washington, are preparing plans for a $150,000 residence for John Hays Hammond at 24th and U and Prescott Sts. The building will be of brick and stone and four stories high.

Sub-bids are asked by Lewis E. Brenninger, builder, 1122 Dartmouth St., N. W., on a colonial residence and stable at 18th and Lowell Sts. that he is erecting for himself. It will be of brick, 2½ stories high and 70 × 110 ft. N. R. Grimm, 627 F St., N. W., Arch.

Wyeth & Cresson, 1517 H St., N. W., Washington, are asking for bids on a $70,000 residence for Charles H. Keep, Asst. Secy. of the Treasury, at R St., near Sheridan Circle, N. W. The house will be of brick and stone, three stories and basement.

JOHN H. NOLAN, Builder, 1413 G St., N. W., Washington, has received contract for the construction of a $35,000 colonial residence for John C. Davidson at 19th and T Sts., N. W. The building will be of brick and stone, three stories, 40 × 70 ft. Wood, Donn & Deming, Archs., 808 17th St., N. W.

A. Goenner, Arch., Bliss Bldg., 35 B St., N. W., has prepared plans for Alonzo O. Bliss for a 5-story apartment house to be built on First St., N. W. Estimated cost, $100,000.

The Baltimore & Ohio R. R. Co. is going to build two 25-engine roundhouses, also repair shops, north of New York Ave. Estimated cost, $400,000.

Bids are asked until Sept. 1 by the Union Trust Co., 1414 F St., N. W., for the erection of a bank and office building at 15th and H Sts. It is to be an 8-story stone and steel building of fireproof construction. Estimated cost, $600,000.

Hennen Jennings will erect a residence It is to be a 4-story house, 60 × 76 ft. George Oakley Totten, Jr., Arch., 808 17th St., N. W.

WASHINGTON, D. C.—Bids are asked until 2 p. m., Sept. 20, by Thos. Ryan, Acting Secy., for furnishing and installing fireproof doors and for fireproofing stairways at the Government Hospital for the Insane, Washington, D. C.

SEWELLS POINT, VA.—A theater will be built here by the De Long Amusement Co., of Norfolk, Va., at cost of $60,000. L. S. De Long will be in charge.

GRAFTON, W. VA.—The lodge of Elks, No. 308, will erect a $50,000 building. Address the secretary for information.

RALEIGH, N. C.—The Virginia-Carolina Chemical Co., headquarters at Richmond, Va., will erect a large guano warehouse.

RALEIGH, N. C.—Bids are asked by the Board of Commissioners for enlargement of county jail according to plans and specifications made by Barrett & Thompson; for iron cells, doors and bathtubs, etc., for county jail; for enlargement of vault; for building chapel for County Home; for making addition of four rooms to court house building according to plans and specifications made by H. P. S. Keller; for furnishing court house and jail with all necessary fixtures and appliances for heating same by hot air and by steam or hot water, etc. J. J. Bernard, Register of Deeds.

WAYCROSS, GA.—The Waycross Hotel Co., consisting of Geo. R. Youmans, L. A. Wilson, G. W. Deen and J. M. Bell, will erect a hotel and office building here to cost about $100,000. H. J. Klutho, 18-20 Underman Bldg., Jacksonville, Fla., is Arch.

MILLEN, GA.—Jenkins County will vote on Aug. 22 on question of issuing $900,000 of bonds for building court-house, jail, bridges, etc.

ATLANTA, GA.—The local lodges of Masons will erect a temple at a cost of $200,000. Morgan & Dillon are the Archs.

James Knox Taylor, Supervising Arch. of the Treasury, Washington, is preparing plans for a post-office building and court-house at Atlanta, Ga. The building will be of brick and stone, fireproof, five stories high, and will cost $1,000,000.

HEFLIN, ALA.—Bids are asked until Aug. 23 for the erection of a court house. A. E. Carruth, Judge of Probate.

JACKSON, MISS.—The Illinois Central Ry. Co. will enlarge the union depot here at a cost of about $75,000.

The Board of Trustees of the Institute for the Deaf and Dumb will erect an addition at a cost of $65,000. JAMES SWANN has been awarded the contract.

NEW ORLEANS, LA.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Aug. 18, for the erection of four frame dwellings at the Naval Station, New Orleans, La. Specifications are on file at the office of the Engineering News. Mordecai T. Endicott, Ch. of Bureau.

SHREVEPORT, LA.—A city hall will be erected at a cost of $100,000. Address the Mayor for information.

CLEVELAND, OHIO.—Edmund M. Wheelwright, Boston, Mass., has been selected as consulting architect for the new Museum of Fine Arts Building, to be erected at Cleveland.

A school building is to be erected here at a cost of $100,000.

A new home for the aged will be erected on Page Ave., to be known as the McGreagor Memorial Home. Estimated cost, $75,000.

HUNTINGBURG, IND.—The Huntingburg Pythian Building Association has incorporated. The association has ordered plans and will receive bids for the construction of a modern lodge hall building. Aug. H. Koerner, A. L. Gary and others, directors.

COLUMBUS, IND.—John L. Morris has let the contract to MARSHALL T. REEVES for the construction of a sanitorium and hospital here.

MULBERRY, IND.—HARRY SENSE, of Lafayette, has been awarded a contract for the construction of the Lutheran Academy building in this city.

BUNKERHILL, IND.—The Farmers' State Bank has awarded the contract to JOSEPH HOOVER, CYRUS BAKER and CHAS. REED for the erection of a new and modern bank building, equipped with fireproof vault and safety deposit boxes.

PETERSBURG, IND.—The Commissioners of Pike County have awarded a contract to VAN HOY & HEN for the construction of the new County Infirmary. The contract calls for modern equipments.

ANN ARBOR, MICH.—The contract for building the State Sanatorium has been awarded to C. A. SAURER & CO., of Ann Arbor, at a figure between $51,000 and $52,000. C. G. JEWETT has been awarded the heating and plumbing contract at about $5,000.

ANN ARBOR, MICH.—The contract for the erection of the new Whitney opera house and hotel has been awarded to the VINTON CO., of Detroit. The building is to cost $60,000.

CHICAGO, ILL.—Plans are being drawn for a hotel to be erected between Michigan and Wabash Aves., south of the Auditorium. It is to have nine stories. It is reported that this hotel will be the finest in the world.

The Calumet Club will erect a $300,000 addition to their clubhouse, on Michigan Boulevard.

NOKOMIS, ILL.—Bids are asked until Aug. 27 by S. M. Strain, City Clk., for the erection of a city hall.

CLINTON, IOWA.—The Iowa Telephone Co. will erect a new building here, and also put in an underground conduit system at a cost of $150,000.

MUSCATINE, IOWA.—Congress has appropriated $75,000 for a new public building to be used as a post office.

MINNEAPOLIS, MINN.—Bertrand & Chamberlain, Archs., 617 Bank of Commerce, are preparing plans for a 6-story pressed brick and cut stone warehouse for the Central Supply Co., to be built on Third St. It will be of fireproof construction and cost about $50,000.

MINNEAPOLIS, MINN.—L. A. Lamoreaux, Arch., 17 Lum. Exch. Bldg., has let the contract for erecting the 3-story, pressed brick and cut stone hospital building to J. & W. A. ELLIOTT, of this city. It will be built on Willow and 14th Sts., at a cost of $60,000.

The contract for the erection of a 6-story building for the Central Supply Co., at 312-14 Third St., has been awarded to JOHN WUNDER, at a cost of $50,000.

The Skylight Club will erect a clubhouse at 720-722 Fourth Ave., at a cost of $50,000.

ST. PAUL, MINN.—Architects have been asked to submit plans to the directors of the St. Paul Masonic Temple Association, Wm. Hamm, Chn., for the erection of a Masonic Temple here to cost $100,000.

Reed & Stem, Archs., 603 Endicott Bldg., have let the contract for erecting the 2-story, cut stone and pressed brick bank building, for the State Savings Bank, to the ST. PAUL BUILDING CO., at a cost of $50,000.

The contract for erecting the 4-story, pressed brick and cut stone, concrete, fireproof building, for the Rudolph Schiffman Co., on Sixth St., has been let to the BRAYTON ENGINEERING CO., of this city, for $55,000.

The Board of Education, O. E. Holman, Pres., propose to erect a 3-story pressed brick and cut stone, fireproof school building early next year. Estimated cost, $50,000.

ST, PAUL, MINN.—Bids are asked by Jas. Knox Taylor, Supervs. Arch., Washington, D. C., until 3 p. m., Sept. 17, for painting and decorating the U. S. post-office, court house and custom house buildings at St. Paul, Minn.

ST. PAUL, MINN.—Bids are asked until Aug. 25 by Bell & Detweiler, 712 Northwestern Bldg., Minneapolis, for erecting the new 4-story pressed brick and cut stone fireproof dormitory for the Macalester College here. Estimated cost, $60,000.

LEAVENWORTH, KANS.—The Government is preparing to erect a federal female prison here.

OMAHA, NEBR.—The new Rome Hotel, 16th & Jackson Sts., of which Mr. John Latenser is the Arch., and Mr. Rome Miller the owner, will be built upon a Raymond concrete pile foundation.

ABERDEEN, S. DAK.—Bids are asked by James Knox Taylor, Supervs. Arch., Washington, D. C., until 3 p. m., Sept. 18, for painting, miscellaneous improvements and repairs at the U. S. post-office at Aberdeen, S. Dak.

ST. LOUIS, MO.—The contract for the erection of the Railroad Y. M. C. A. Building has been let. The building will cost approximately $215,000.

Raymond concrete piles have been adopted for the foundation of the Shaughnessy Warehouse, 22d and Lucas Sts., of which Barnett, Haynes & Barnett, Frisco Bldg., are the Archs.

The Southern Commercial Savings Bank is to build a new bank building at Broadway and Nagel Aves. Estimated cost, $50,000.

SPRINGFIELD, MO.—Board of Regents of the Fourth District Normal School are considering the erection and equipment of normal school of sufficient capacity to accommodate 1,200 to 1,500 students. Architect has not been selected nor general plans agreed upon; cost to be provided for by Legislature after January, 1907; cost of completed buildings, $350,000 to $400,000. Geo. A. McCann, Secy.

FORT SMITH, ARK.—A 5-story hotel is to be built here at a cost of $200,000. It is to be of steel construction. Haynes & Barnett, Archs., Frisco Bldg., St. Louis, Mo.

BOONEVILLE, ARK.—The Farmers' Union of Logan County will erect a warehouse here. Address the secretary for information.

MAGNOLIA, ARK.—The Columbia County Farmers' Union are contemplating the erection of a warehouse at this place. Address the secretary for information.

HOUSTON, TEX.—The Beth Israel congregation will erect a temple here to cost from $60,000 to $80,000. Charles Page, Arch.

FORT WORTH, TEX.—Fort Worth is to have an auditorium building and home for the annual fat stock show that will cost the sum of $175,000. This decision was reached at a conference held here to-day between representative Fort Worth citizens and Stanton Palmer, personal representative of J. Ogden Armour, and Col. W. E. Skinner, of Chicago.

DENVER, COLO.—The contract for the erection of the Carnegie library has been awarded to HENRY W. SCHLEUTER, of Chicago. His bid was $250,000.

The Colorado & Southern R. R. Co. are to build a new depot at 16th and Bassett Sts., at a cost of $50,000.

PORTLAND, ORE.—Articles of incorporation have been filed for the Wild Pigeon Mineral Springs Co. The capital stock is $80,000, and S. F. Lee will hold the position of manager. It is the intention of the company to build a hotel at the springs and to make the place a first-class summer resort.

FAIRFIELD, CAL.—Bids are asked again until Sept. 1 for the erection of the county jail by the Board of Supervisors.

SAN JOSE, CAL.—Bids are asked until 2 p. m., Sept. 2, for the reconstruction of the court-house by the Board of Supervisors. Henry A. Pfister, Clk.

SACRAMENTO, CAL.—McDougall Bros., Archs., 30 Pine St., San Francisco, Cal., are drawing plans for a building to be erected by Daniel Cobb. It is to be of brick.

An apartment house is to be erected on Tenth and I Sts. at a cost of $50,000. San Francisco capital, it is reported, will be interested in the new building.

SAN FRANCISCO, CAL.—E. R. Lionthal is to erect a 5-story brick building at Mission and Beale Sts. at a cost of $75,000. Clinton Day, 136 Cleary St., is Arch.

A 4-story brick building is to be erected at Dupont and Commercial Sts. at a cost of about $80,000. H. H. Hedger is Arch.

W. H. Demming will erect a 7-story brick and stone building at Post and Stockton Sts.

Wm. Helbing will erect a 4-story, reinforced concrete building at a cost of $150,000, on the site of the old Manhattan Hotel.

The Native Sons of the Golden West are going to build a large hall. It is to be a fire and earthquake-proof building.

A large theater, skating rink and restaurant building will be erected on the block bounded by Fillmore, Webster, Eddy and Turk Sts. The building will cost $200,000.

Hale Bros. are going to erect a new building on the site of their old one at a cost of $250,000. It is on Market St.

New York architects are preparing plans for the new Palace Hotel to be erected here at a cost of $3,000,000. $600,000 will be allowed for furniture.

LOS ANGELES, CAL.—Newmark Bros. are going to erect a 5-story brick building on East First St. The building is to be 50 × 120 ft. The contract has been awarded to C. Leonardt. A. F. Rosenheim, Hellman Bldg., is Arch.

At East Ninth St. and Los Angeles Ave. John T. and Charles Allen will erect a three-story building at a cost of $50,000. The general contract has been awarded to the DUNCOMBE CONSTRUCTION CO.

RENO, NEV.—Fowler & Lyons, Archs., have completed plans for the I. O. O. F. Temple to be erected at Second and Center Sts. It is to be a four-story, brick, stone and steel building. Estimated cost, $125,000.

VANCOUVER, B. C.—An apartment house, to cost $125,000, is soon to be erected at Granville and Robinson Sts.

REGINA, SASK.—A lodge-room and opera-house will be erected by the Benevolent and Protective Order Elks. It will be a 3-story brick and stone building of fireproof construction. Estimated cost of building, $50,000, and of equipment, $20,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

AGAWAM, MASS.—GEO. W. HAYDEN, of West Springfield, it is stated, has secured the contract to install a water system in Agawam. The work includes 12,000 ft. pipe and 25 hydrants. The water is to be furnished by the West Springfield Water Department.

STERLING, MASS.—Bids are asked until 2.30 p. m., Aug. 27, by the Metropolitan Water and Sewerage Board, 1 Ashburton Pl., Boston, for constructing four filter beds in Sterling. The work includes 24,000 cu. yds. of earth excavation, 50 cu. yds. of concrete masonry and laying about 2,700 ft. of vitrified pipe. William A. Davenport is Secy. Frederic P. Stearns is Chief Engr., Boston. (Advertised, Engineering News.)

BRISTOL, CONN.—Bids are asked until Aug. 18 by the Bristol Water Co. for laying about 2,000 ft. 8-in. c.-i. pipe in South and East Sts.

NEW BRITAIN, CONN.—Percy M. Blake, Engr., Newtonville, Mass., has plans and specifications nearly completed for the dam to be constructed for the Burlington Reservoir. It will be of concrete construction and 10 ft. thick at the base and 200 ft. long. Eventually the dam will be 50 ft. high, but as it is planned to provide simply an intake at present it will not be built up more than 12 ft. The expense is estimated at $15,000. The water will be carried to New Britain, a distance of nine miles, through a 24-in. main, which will take as near a straight course as possible.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Aug. 24, by William B. Ellison, Comr. of Water Supply, Gas and Electricity, for constructing engine houses for high-pressure fire service at Gansevoort and West Sts. and at Oliver and South Sts., Borough of Manhattan; also for installing necessary plumbing and gas fitting at the above engine houses.

CROTON FALLS, N. Y.—The bids received Aug. 7 by the Aqueduct Commissioners, John F. Cowan, Pres., for constructing a reservoir, masonry dam across the west branch of the Croton River, an earthen dam across the east branch and an open connecting channel were as follows: James Mallory & Co., North 15th St., Brooklyn, $3,028,853; John J Hart Co., 54 Broad St., New York, $3,710,917; Frank Bradley, foot of 68th St., North River, New York, $3,647.180; Naughton Co. & A. McMullen, 299 Broadway, New York, $3.280,036; W. J. Flanagan, Yonkers, $3.045,217; Coleman, Banchard & Coleman, Croton, $3,394,502; A. G. Vermilye, 463 West 144th St., New York, $2.817,511. Harry W. Walker is Secy. of Comrs.

BUFFALO, N. Y.—The Minister of Public Works of Canada has granted the application of the City of Buffalo to construct certain works in the vicinity of the International boundary line for the purpose of supplying the City of Buffalo with pure water.

ASBURY PARK, N. J.—Bids are asked until noon, Sept. 10, by the Department of Water and Sewers, John L. Coffin, Supt., for erecting complete one 200-HP. internal furnace boiler. (Advertised, Engineering News.)

RENOVO, PA.—Bids are asked until Aug. 28 by the Borough for furnishing water pipes and all material required, building a dam, digging and refilling trenches, laying pipes and constructing a water system.

PHILADELPHIA, PA.—Plans, specifications and bidding sheet for completing the Torresdale intake, at Philadelphia, as advertised, are on file at the office of Engineering News, New York. Bids are asked until Aug. 22. Thomas L. Hicks is Dir. Dept. Pub. Wks.

PITTSBURG, PA.—J. W. Clark, Dir. Dept. Pub. Wks., has awarded contract for extension of water mains in Millvale St. to RAPHAEL VERRI, at $3,958. The contract for constructing pipe line to connect the Gross St. system with the Highland reservoir has been let to the INTERNATIONAL CONTRACTING CO., at $51.474.

WILMINGTON, DEL.—We are officially informed that at the meeting of the Board of Water Commissioners Aug. 13 the following bids were received for a preliminary filter: PITTSBURG FILTER MFG. CO. (awarded contract), $63,546; Stewart & Donohue, $74,095; A. S. Reed & Bro Co., $78,000; Culgin-Pace Cont. Co., $109,750. Theodore A. Leisen is Ch. Engr.

WASHINGTON, D. C.—Bids are asked until noon, Sept. 1, by the District Commissioners for furnishing 600 tons of 8-in. c.-i. water pipe. (Advertised, Engineering News.)

MANASSAS, VA.—Bids are asked until Sept. 19 for constructing water-works and an electric light plant and for macadamizing streets in Manassas. O. G. Newman, Chn. Construct. Com. (Advertised, Engineering News.)

CHARLESTON, S. C.—Bids are asked until 11 a. m., Sept. 1, by Mordecai T. Endicott, Ch. of Bureau of Yards and Docks, Navy Department, Washington, D. C., for constructing pump well, with house over it, and culverts at Dry Dock No. 1, Charleston Navy Yard. Specifications are on file at office of Engineering News, New York.

GLENVIEW, KY.—Glenview Water Pipe Line Co. has been incorporated with $20 000 capital stock by P. P. Huston, G. R. Hunt, Jr., Thomas F. Smith and R. W. Price, all of Louisville, Ky., to supply water to Anchorage, Glenview and other suburban towns from the filtration plant of the Louisville water-works on Crescent Hill.

PERRYSVILLE, OHIO.—We are officially advised that RUMSEY & CO., Seneca Falls, N. Y., have been awarded contract for installing triplex pumps, gas engine and motor, at $3,866. Riggs & Sherman Co., Toledo, Ohio, are Des. Engrs. and Engrs.-in-Charge. R. R. Hartsharn is Clk, Bd. Pub. Affairs.

MARTINS FERRY, OHIO.—The contract for laying the water main in the lower part of the city has been awarded to STRINGER & HAYNE. The Board of Public Service has placed an order for the pipe. The work will cause an expenditure of about $7,000.

IRONTON, OHIO.—The Board of Public Service, Geo. H. Davies, Clk., contemplates installing 24-in. intake pipes.

GARY, IND.—We are officially advised that the PLATT IRON WORKS CO., Chicago office, 311 Dearborn St., New York office, 100 Broadway, has secured contract for turbine pumps to be used for the water supply for the Indiana Steel Co. at Gary. This plant will have a daily capacity of about 200,000,000 gallons when completed and will be one of the largest turbine pumping plants in this country. The turbines will be operated by electric motors.

KINGSLEY, MICH.—Bids are asked Aug. 20 for constructing a system of water-works at Kingsley.

COAL CITY, ILL.—WILLIAM SHOBER, of Morris, Ill., has secured the contract for installing the new water-works system in Coal City.

WASHINGTON HARBOR, WIS.—The city will extend its intake pipe 2,800 ft. and lay it at the bottom of the lake in 20 ft. of the water. The estimated cost will be about $40,000.

SHAWANO, WIS.—Bids are asked until Aug. 24 by A. L. Schmitz, Clk., for making the required extension to the system of water mains here, according to plans on file at the clerk's office. Proposals will be in detail, naming price per lineal foot for the various sizes of pipe, including the setting of hydrants and valves.

MILWAUKEE, WIS.—THE WISCONSIN ENGINE CO., of Corliss, has been awarded the contract to build a 20,000,000-gallon pump for the city water-works at $66,950. It built the last pump for $64,500. Bids were also received by the Board of Public Works from the Allis-Chalmers Co., the Filer-Stowell Co. and the William Tod Co., of Youngstown, Ohio. Vincent J. Schoenecker is Comr. Pub. Wks.; Charles G. Poetsch is City Engr.

WAPELLO, IOWA.—The Wapello Electric Light & Power Co., K. Vaught, Pres., contemplates erecting a water-works system, to cost $15,000.

BIWABIK, MINN.—C. C. BUTLER, of Virginia, has been awarded contract for constructing water-works and sewer systems at Biwabik, at $40,000.

OMAHA, NEBR.—Bids are asked until 10 a. m., Aug. 27, by M. Gray Zalinski, Constr. Q. M., Army Bldg., Omaha, for installing a water-works system at Fort Omaha.

BISMARCK, N. DAK.—Bids are asked until 11 a. m. Sept. 6, by Lieut. Will D. Wills, Constr. Q. M., Fort Lincoln, N. Dak., for installing an 8-in. water main from Ninth to Rosser Sts., Bismarck, to connect with the present water main at Fort Lincoln.

NEOSHO, MO.—This city has voted affirmatively the proposed $400,000 bond issue for water-works. Burns & McDonnell, 709 Dwight Bldg., Kansas City, Mo., will make plans and estimates for improving water-works.

CLINTON, MO.—Bids will be asked shortly for construction of water-works and electric light plants, for which a $100,000 bond issue has been voted; $70,000 to be used for water-works and $30.000 for electric lights. As soon as water-works are completed several miles of streets will be paved. W. H. Shackelford is Mayor.

BRYAN, TEX.—The water-works company is having plans made for extension of its system. Louis G. Hester, Houston, is Consult. Engr.

PERRY, OKLA.—Burns & McDonnell, Dwight Bldg., Kansas City, Mo., are preparing plans for water-works extension for Perry, to cost $30,000. Bids will be taken in about 30 days.

SULPHUR, IND. T.—It is reported that city has voted affirmatively the proposed $35,000 bond issue for constructing water-works.

GRAND JUNCTION, COLO.—This city will extend its water-works system, between Grand Junction and Kannah Creek. The expenses will be paid by a $300,000 bond issue.

CRESTON, WASH.—W. J. Roberts, of the State College, at Pullman, has completed the survey and estimates for a water system for the town of Creston, and places the cost at $7,000.

SEATTLE, WASH.—We are officially advised that STIRRAT & GOETZ, 204 Pioneer Bldg., Seattle, have been awarded contract for constructing water mains in Railroad Ave. and other streets, at $86,770. The International Contract Co., 737 New York Bldg., bid $89,671. R. H. Thompson is City Engr.

PORTLAND, ORE.—Bids are asked until 3 p. m., Aug. 22, by the Water Board, Frank T. Dodge, Supt., for furnishing a quantity of c.-i. pipe.

PALMERSTON, ONT.—It is reported that a water-works system will be installed at Palmerston, at a cost of about $35,000.

NEW LISKEARD, ONT.—A complete water-works plant will be installed here. The water will be brought four miles from Watson's Falls. Estimated cost, $30,000. Dr. C. A. Hodgetts, Provincial Health Officer, is in charge of the work. H. Hartman is Town Clk.

HAILEYBURG, ONT.—Haileyburg is preparing to install a water-works system complete. The work will be under the charge of H. D. Graham, Town Clk. Springs will supply water for the system.

CHESLEY, ONT.—With a supply from artesian wells, the town of Chesley will construct a water-works system under the direction of Dr. C. A. Hodgetts, Provincial Health Officer. Richard L. Lillico is Town Clk.

BOISSEVAIN, MAN.—Cecil Goddard, C. E., 6 Roslyn Road, Winnipeg, is preparing plans for a system of water-works for Boissevain. Water will be brought from Max Lake, a distance of 12 miles.

VANCOUVER, B. C.—We are officially advised that EVANS, COLEMAN & EVANS, Vancouver, have contract for supplying c.-i. water pipe to the Vancouver City Water-Works.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—R. D. SHANAHAN secured contract on Aug. 3 for constructing Section No. 4 of the West Side intercepting sewer, at $11,447. Other bidders were: W. B. Byrne, $11,974; E. E. Trumbull & Co., $16,362; Booth & Co., $17,052; Forgione & Romano, $17,143; J. W. Gulliver, $18,231; Worster & Wilson, $18,527; J. J. Mahoney, $19,123.

GARDNER, MASS.—At a special town meeting held recently an appropriation of $15,000 was made for sewer construction. West St. will have an extension, and 900 ft. will be placed in two streets in South Gardner.

MALDEN, MASS.—We are officially advised that the following bids were received Aug. 3 by the Metropolitan Water and Sewerage Board for constructing Section 64, North Metropolitan Sewer, Malden: Metropolitan Contracting Co., 95 Milk St., Boston, $46,133; Coleman Bros., 15 Court Sq., Boston, $45,659; Bruno Salomone & Petitti, 23 Court St., Boston, $39,389; T. H. GILL & CO., 88 Broad St., Boston, $33,578 (contract awarded).

MILFORD, MASS.—NORRIS, STAPLES & GOULD have secured contract, at about $9,000, to furnish pipe for the sewer system about to be installed in Milford.

GREENWICH, CONN.—See under Streets and Roads.

NEW YORK, N. Y.—Contract for constructing a sewer system at Ingleside, Flushing, has been awarded to P. J. MARA, Whitestone Ave., Flushing, at $190,816. Work will begin in about one week.

MENANDS (Albany post-office), N. Y.—Bids are asked until 8.30 p. m., Aug. 27, by the Commissioners of Sewerage and Drainage, at the office of James A. Burns, Rural Cemetery, Albany, for replacing about 2,200 ft. of 12 and 15-in. vitrified pipe sewers at Menands. (Advertised, Engineering News.)

BUFFALO, N. Y.—The lowest bid received July 27 for constructing 24-in. brick and 20 and 12-in. sewer in Ellicott St. was submitted by George W. Moore, at $7,370; the lowest received for constructing 33, 30 and 27-in. brick sewers in Broadway was submitted by John Miller and William Franklin, Jr., at $8,200; for constructing 4½, 4, 3¾, 3¼, 2½, 2-in. brick and 15-in. tile sewer in Merrimac, Mildred Sts, Englewood and Devereaux Aves., John Miller and William Franklin, Jr., $24,900.

UTICA, N. Y.—Bids are asked until Sept. 7 by the Mayor for constructing a storm water drain, consisting partly of vitrified pipe and partly of brick, in a portion of Oneida St. Also a 30-in. storm water drain, consisting partly of c.-i. pipe and partly of vitrified pipe, in Noyes St. Paul Schultz is City Engr.

MATTEAWAN, N. Y.—Bids are asked until Aug. 18 by the Board of Village Trustees for constructing a sewage disposal works.

MARCUS HOOK, PA.—Bids are asked until Sept. 3 by H. C. Valentine, Chn. on Sewers, for constructing a 3-ft. brick sewer in Market St.

READING, PA.—JOSEPH P. O'REILLY, it is reported, has secured the contract to construct the northwestern reinforced concrete intercepting sewer, at $28,027.

LANCASTER, PA.—We are officially advised that W. G. STALL'S SONS, Altoona, Pa., have secured contract for constructing sewers at Section 1, $10,133, Section 2, $71,081.

NEWCASTLE, PA.—It is reported that the city is planning to build a reduction plant, costing about $40,000.

EMPORIUM, PA.—W. H. SIMPSON has been awarded the contract for the construction of 18,800 ft. of sewer, at Emporium, Pa.

WASHINGTON, D. C.—Bids were opened Aug. 6 at the office of the District Commissioners for laying pipe sewer. Bids were as follows: E. G. GUMMEL, Eckington, D. C. (awarded contract), ordinary excavation, $1.10 per cu. yd.; sewer brick masonry, $16; 21-in. pipe sewer, $1.15 per lin. ft.; 24-in. pipe sewer, $1.25; James A. Coyle, Washington, D. C., excavation, $1.80; sewer brick masonry, $18; 21-in. pipe, $1.50; 24-in. pipe, $1.60.

WASHINGTON, D. C.—Bids were opened Aug. 13 at the office of the Commissioners of the District of Columbia, Washington, D. C., for the construction of a sewer. Bids were received from (a) James A. Coyle, 2740 14th St., N. W., Washington, and (b) E. G. Gummel, Eckington, D. C: Ordinary excavation, (a) 90 cts., (b) 97 cts.; sewer brick masonry, (a) $16, (b) $15; vitrified brick masonry, (a) $24, (b) $18; vitrified block inverts, (a) $1.10, (b) $1; concrete masonry "D," (a) $8, (b) $8. Prices, except for inverts, per cu. yd.

NORFOLK, VA.—Plans and specifications have been completed for sewerage system to be constructed in the Seventh Ward, for which bonds have been issued. Bids for the construction will shortly be asked. W. T. Brooke is City Engr.

CHARLESTON, W. VA.—We are officially advised that T. Chalkley Hatton, C. E., 608 Market St., Wilmington, Del., has been engaged to design a system of sewers and drains for Charleston. The probable cost of the proposed system will be $300,000.

EATONTON, GA.—This city has voted affirmatively a $15,000 bond issue for constructing sanitary sewers. W. F. Adams is Mayor.

VICKSBURG, MISS.—Bids are asked until Sept. 3 by B. W. Griffith, Mayor, for constructing sewer on Washington St. and paving the same. H. J. Trowbridge is City Clk.

PADUCAH, KY.—See under Streets and Roads.

SANDUSKY, OHIO.—Bids for constructing the Warren St. sewer have been rejected and new ones will be invited. Henry Bros. were the lowest bidders, at $40,000. J. W. Miller is City Engr.

SPRINGFIELD, OHIO.—It is reported that the proposition to construct a sanitary sewer system in Springfield is now before the City Council. W. H. Sieverling is City Engr.

CAMBRIDGE, OHIO.—ADAMS BROS., Zanesville, have been awarded contract for constructing trunk and sanitary sewers, at $16,000.

DAYTON, OHIO.—WILLIAM HILT has been awarded a contract by the Board of Public Service for constructing a storm sewer along Great Miami Boulevard, at $9,510.

STEUBENVILLE, OHIO.—JOHN O. BATES has been awarded contract for constructing sewer in North Seventh St., and H. W. IRONS has the contract for the sewer pipe.

NEWARK, OHIO.—The City Council has resolved to improve North Morris and East Main Sts., by constructing tile sanitary sewers. H. Rossel is Pres. of Council; Lincoln B. Munch is Clk.

CINCINNATI, OHIO.—We are officially informed that a 4-ft. sewer, 3,120 ft. long, and costing about $30,000, will be constructed at Cleveland. It is stated that bids will be asked for shortly. C. N. Danenhower is City Engr.

TOLEDO, OHIO.—Bids are asked until noon, Aug. 23, by the Board of Public Service, Reynold Voit, Secy., for constructing Main Sewer No. 984. Frank I. Consaul is Ch. Engr. Bd. of Pub. Service.

SOUTH BEND, IND.—It is reported that bids will be received in about two weeks for constructing about 4,000 ft. of pipe sewers. A. J. Hammond is City Engr.

ADRIAN, MICH.—Bids are asked until noon, Aug. 23, by John Mawdsley, City Clk., for constructing storm water sewers. All sewers under 24 ins. are to be of vitrified pipe and 30 to 36-in. sewers are to be of brick, cement pipe, monolithic concrete or combination concrete and brick. (Advertised, Engineering News.)

ADRIAN, MICH.—Bids are asked until noon, Aug. 23, by John Mawdsley, City Clk., for constructing from 12 to 66-in. sewers. All 30 to 66-in. sewers will be of cement pipe, double ring or single ring brick, monolithic concrete or combination concrete and brick, as may be determined by the Council. James Blair is City Engr.; the Riggs & Sherman Co., Toledo, Ohio, are Des. Engrs.

CHICAGO, ILL.—We have been officially advised that the following bids were received July 26 by Board of Public Service for constructing storm water sewer, of (a) pipe, (b) concrete, (c) brick: Henry Sheehan, Toledo, Ohio, (a) $8,333, (b) $7,277, (c) $7,145; McAlonan Bros., 175 West Burchtel Ave., Akron, Ohio, (a) $4,907, (b) $4,082, (c) $4,247; Faragher & Randell, Lorain, Ohio, (a) $5,121, (b) $4,791, (c) $5,231. The Riggs & Sherman Co., Toledo, Ohio, are Des. Engrs.

SAVANNA, ILL.—The contract for constructing sewer in the southern district has been awarded to RINK & SNELL, Dixon, Ill., at $7,480.

WINNETKA, ILL.—See Streets and Roads.

ST. PAUL, MINN.—Bids are asked until 3 p. m., Sept. 4, by James Knox Taylor, Supervising Arch., Washington, D. C., for constructing sidewalk at the U. S. post-office, court house and custom house at St. Paul.

MORRIS, MINN.—TANNER BROS., of St. Paul, Minn., it is reported, have secured the contract to construct the sewer system, in all about five miles, at $23,000.

EVANSTON, WYO.—We are officially advised that on Aug. 6 the WHEELWRIGHT CONSTRUCTION CO., Ogden, Utah, was awarded contract, at $22,409, for constructing sewer in Evanston. Other bidders were: Craven, Gilman & Zitzman, Ogden, $28,198; Doyle & Swartz, Colorado Springs, Colo., $23,348; Parker & Bullen, Salt Lake City, Utah, $23,796.

JUNCTION CITY, KANS.—The City Council of Junction City, it is reported, has decided to construct a sewer system in the business and residential sections, to cost about $60,000.

WELLINGTON, KANS.—It is reported that the City Council has under consideration the installation of a complete sewage system. The cost is estimated to be about $175,000. C. L. Roberts is County Surv.

SPRINGFIELD, MO.—COOPER BROS. have been awarded the contract by the City Council to reconstruct the Robb sewer at the expense of the property owners in the district. Barbour & McDavid, attorneys for the contractors, held that the proceedings of the Council and the awarding of the contract were illegal, consequently the work is held up pending further proceedings.

ST. LOUIS, MO.—Bids are asked until Aug. 24 by the Board of Public Improvements, A. J. O'Reilly, Pres., for constructing a joint district sewer in Manchester Ave. Joint Sewer District, probable cost, $85,000, including the city's share of $4,000; also McCaucland Ave. Sewer District No. 1, probable cost, $89,500.

OGDEN, UTAH.—We are officially informed that the bids received Aug. 4 by A. F. Parker, City Engr., for constructing Sewer District No. 10 were: Doyle & Swartz, Colorado Springs, Colo., regular $86,475, alternate $89,605; J. P. O'Neill, Ogden, regular $80,101, alternate $78,668.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked by F. M. Gibson, Deputy and Acting Comr. St. Cleaning, until Aug. 23, for furnishing materials and constructing a rubbish incinerator furnace on the pier at the foot of West 47th St., Boro. of Manhattan.

WILMINGTON, DEL.—The Wilmington Sanitary Co. is preparing to make alterations at the city garbage crematory in order to utilize the building for the disposal of garbage after the company's contract becomes effective, on Oct. 1. A 1-story boiler house, 20 x 24 ft., is to be erected, with a tower on the roof, in connection with the present building, at a cost of $2,000. A permit for the improvement has been issued by Building Inspector Connelly, and it is expected that the work will proceed without delay and everything will be in shape at the plant by the first of October.

DELAWARE CITY, DEL.—Bids are asked until 11 a. m., Sept. 12, by Capt. Louis F. Garrard, Jr., Q. M., for constructing a garbage crematory building at Fort DuPont. (Advertised, Engineering News.)

BALTIMORE, MD.—On Aug. 1 MICHAEL T. HORNER & CO., 1018 Ashland Ave., were awarded contract by the Board of Awards for removing street dirt at 30 cts. a cu. yd.

COLUMBUS, OHIO.—It is reported that the Board of Public Service, Fred. J. Immel, Pres., will in about two months receive bids for constructing a garbage incineration plant to cost about $290,000. Henry Maetzel, City Hall, is the Engr.-in-Charge.

MINNEAPOLIS, MINN.—I. L. ROBINSON has been awarded contract for the building, at $6,210, and WILLIAM BROS. BOILER WORKS the contract for removing old boilers and installing new machinery, at $11,100, at garbage crematory on work house grounds.

SACRAMENTO, CAL.—The contract to construct a garbage crematory has been awarded to the DECARIE MFG. CO., of Minneapolis, Minn., at $25,000. C. M. Phinney is Deputy City Surv.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

LEOMINSTER, MASS.—The committee in charge of the new high school building on Aug. 7 awarded contract for grading about the school to NICHOLAS D'ONPRIO, at $17,500.

PROVIDENCE, R. I.—The following contracts were let Aug. 8, at the state house, for improving certain roads in Rhode Island: Foster road, A. W. STEERE, $3,696; East Providence, JOSEPH M'CORMICK, $8,066; Bristol, L. H. CALLAN, $6,299; Barrington, JOSEPH M'CORMICK, $8,142; Middleton, J. O. PECKHAM, $4,074; Jamestown, ALTON HEAD, $4,170; New Shoreham, J. C. CHAMPLIN, $4,989; Richmond, A. D. BRIDGE, $5,607; Johnston and North Providence, A. W. STEERE, $9,157; Gloucester, A. W. STEERE, $3,505; Exeter, A. D. BRIDGE, $11,705; Warren, Coventry, Hopkinton and South Kingstown, J. W. BRISTOW, $3,370, $3,559, $7,666 and $3,696, respectively.

TORRINGTON, CONN.—Bids for building the state road north of the borough line were opened Aug. 3 at the Selectmen's office. The following bids were received: Joseph Mascetti, Torrington, $8,700; John De Michill, Torrington, $8,999; Ambrose Robiatti, Torrington, $9,250; Donahue Bros., Middletown, $12,988; Frank Arragoni, Durham, $7,750, with $1.35 extra for every cu. yd. of rock found in the section.

GREENWICH, CONN.—Bids are asked until 6 p. m., Aug 25, by the Warden and Burgesses of the Borough of Greenwich, for constructing about 4,500 sq. yds. of brick pavement and about 150 lin. ft. of pipe drain. Henry B. White is Clk. (Advertised, Engineering News.)

DUNKIRK, N. Y.—Bids are asked until Aug. 27 by the Common Council for grading and paving or macadamizing portions of Railroad Ave., Fifth and Wright Sts., in all about 22,850 sq. yds. James P. Morrisey is City Engr.; L. N. Murray is City Clk.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Aug. 21, by Louis F. Haffen, Pres. Boro. of Manhattan, for regulating, grading, curbing and paving various streets.

The bids received Aug. 6 by John F. Ahearn, Pres. Boro. of Manhattan, for regulating, grading and curbing New Ave. (Bennett Ave.) were as follows: C. W. Collins, Fordham Road and Morris Ave., $145,370; C. N. Whittier, 1929 Amsterdam Ave., $156,155; John J. Hart Co., 54 Broad St., $167,827; George L. Brown, 613 West 146th St., $182,908; D. W. Moran, 563 Burnside Ave., $184,383; Troy Public Works Co., 1148 St. Nicholas Ave., $214,691; Thomas Crimmins Construction Co., 69th St. and Ave. A, $222,653; A. Kelly, 215 West 125th St., $260,518; A. Loughetti, $260,518.

The bids received Aug. 6 by John F. Ahearn for constructing parkways on and paving with asphalt block the roadway of Broadway from 155th St. to 169th St., were: Harlem Construction Co., 41 Wall St., $81,563; Barber Asphalt Paving Co., 144 Liberty St., $88,468.

The following bids were received Aug. 9 by the Department of Parks, Moses Herrman, Pres., for improving Mosholu Parkway, from Webster Ave. to Van Courtlandt Park: Atlanta Const. Co., 432 East 91st st., $70,300; Leahy Contracting & Construction Co., 1446 Prospect Ave., $68,475; B. A. Poleheums, $47,320; John B. Malastesta, 3170 Jerome Ave, $46,075.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Aug. 27, by John F. Ahearn, Pres. Boro. of Manhattan, for constructing parkways on and regulating and repaving with asphalt block the roadway of Broadway, from 155th to 169th St.

COHOES, N. Y.—Bids are asked until 8 p. m., Sept. 4, by the Common Council for paving and curbing Church St. with brick, block asphalt and creo-resinate wood. William J. Elliot is City Clk. (Advertised Engineering News.)

ALBANY, N. Y.—Bids are asked until noon, Aug. 27, by Henry A. Van Alstyne, State Engr., and Surv., for improving various public highways. Bids are also asked until noon, Aug. 28, for improving various other highways. (Advertised Engineering News.)

JAMESTOWN, N. Y.—We are officially advised that the Board of Public Works has awarded the WARREN BROS. CO., of Boston, a contract for 15,421 sq. yds. of bitulithic pavement.

SYRACUSE, N. Y.—On Aug. 6 the Board of Contract and Supply awarded to the CENTRAL CITY PAVING CO., contract for paving Clover St., at $6,670.

HADDONFIELD, N. J.—Bids are asked until 11 a. m., Sept. 12, by the Board of Chosen Freeholders, Fred W. George, Clk., Camden, N. J., for macadamizing public road from Haddonfield to Coffins Corner, a distance of 3½ miles. Alfred L. Sayers is Dir.; J. J. Albertson is County Engr. (Advertised Engineering News.)

CALDWELL, N. J.—Bids are asked until Aug. 20 by the Commissioners on Roads and Assessments of the Board Chosen Freeholders, T. McGowan, Dir., Newark, for grading and paving with Telford, about two miles of Horseneck Road and 1½ miles Westville Road, Caldwell.

HOBOKEN, N. J.—Bids are asked until 8 p. m., Aug. 22, by the Mayor and Council, for repaving Willow Ave., from 17th St. to the railway crossing on Willow Ave. James H. Londrigan is City Clk.

PHILADELPHIA, PA.—Bids are asked until 10 a. m., Aug. 17, by Dr. W. M. C. Coplin, Dir. Dept. Pub. Health and Charities, for repairing streets and roads on the grounds of the Philadelphia Hospital.

ALLENTOWN, PA.—The State Highway Department has awarded contract to construct new turnpike from Sumner Ave., Allentown, to Walbert's Station, via Wennersville, to McCORMICK & CO., at $46,870. The Weaver Contracting Co., of this city, was $47.85 above them. The other bidders were: John Walz, Easton, $51,018; Frazer Construction Co., 14 South Broad, Philadelphia, $68,734; R. A. Malone, Lancaster, $48,746; Weaver Contracting Co., of this city, $46,918; the Maryland Co., Philadelphia, $51,924; John McMenamy, Philadelphia, $55,837; Adam H. Leader, Reading, $51,778.

HARRISBURG, PA.—Bids were opened for new highways by the State Highway Department Aug. 3, the following being awarded contracts: Warren County, Kinzua and Glade Townships, RAYMOND & LOVE, Corry, three sections, at $9,987, $12,110 and $7,564; Cameron County, Emporium Borough, JOHN McMENAMY, Harrison St., Philadelphia, $5,538; Bradford County, Wells Township, BOOTH & FLINN, Pittsburg, $25,534.

WILMINGTON, DEL.—Bids are asked until Aug. 21 by Frances A. Price, County Highway Commissioner, for improving a portion of the Summit Road.

Bids for constructing the Townsend gravel road are reported to have been received on July 31 as follows: Stewart & Donohue, $11,300; John E. Taylor, $11,560, and E. Ward Brown, of Port Deposit, Mich, $11,742.

DELAWARE CITY, DEL.—Bids are asked until 11 a. m., Sept. 12, by Capt. Louis F. Gerrard, Jr., Q. M., Fort Du Pont, for constructing extension of granolithic sidewalks at that post. (Advertised Engineering News.)

BALTIMORE, MD.—Bids will be received until Aug. 20 by Capt. William M. Cruikshank, Constr. Q. M., Fort Howard, for constructing concrete walks at Fort Howard.

We are officially advised by W. W. Crosby, Baltimore, that JAMES C. COONEY was awarded contract, Aug. 6, for macadamizing 2⅔ miles of road between Baltimore and Washington, D. C., at $24,500.

WASHINGTON, D. C.—The District Commissioners have rejected the bids opened Aug. 3, for asphalt paving, on the ground that both the bids received, from the Brennan Construction Co., 3050 K St., and the Cranford Paving Co., Home Life Bldg., respectively, exceed the legal maximum limit for this piece of work. This limit is $1.65 per sq. yd., and the bidders claim that to take a contract at that price would not allow them a sufficient margin of profit.

MANASSAS, VA.—See under Water-Works.

VICKSBURG, MISS.—Bids are asked until Sept. 3 by the Mayor and Aldermen for paving and constructing sewers in Washington St. from Glass Bayou Ridge to Harris St.

PADUCAH, KY.—Bids are asked until 3 p. m., Aug. 29, by the Board of Public Works, for paving several streets with vitrified paving blocks and for constructing curbs, granitoid sidewalks and storm water sewers. L. A. Washington is City Engr. (Advertised Engineering News.)

LOUISVILLE, KY.—Bids are asked until Aug. 22 by the Board of Public Works for paving certain streets of this city with vitrified brick. Estimated cost, $23,000. Joseph P. Clakbrook is City Engr.

CLEVELAND, OHIO.—We are officially advised that on Aug. 4 JOHN HATTIE was awarded contract for grading, at $7,132, consisting of about $13,000 cu. yds. William H. Evers is County Engr.

NILES, OHIO.—We are officially informed that the lowest bids received July 23, for paving, were as follows: For paving North Main St., Armstrong, McGlashen & Dennis, Warren, Ohio, $9,978; for paving West Park Ave., V. Mango & Co., Niles, $6,484; for grading and constructing cement curb and gutter, V. Mango & Co., Niles, $4,235. William Wilson is City Engr.

ASHLAND, OHIO.—We have been officially advised that WILDES & DAVIDSON, Akron, Ohio, have secured contract, at $23,000, for paving 15,000 sq. yds. with brick. F. L. Niederheiser is Des. Engr.; A. P. Black is City Clk.

COLUMBUS, OHIO.—Bids are asked until Aug. 29, by Sam Huston, State Highway Comr., for constructing highway.

MARIETTA, OHIO.—We are officially informed that contract for paving Front, Fort and Third Sts., has been awarded to PUTNAM & PRICE, at $20,500. A. F. Cole is City Engr.

CINCINNATI, OHIO.—The lowest bid received Aug. 10, by the Board of Public Service, M. J. Keefe, Clk., was that of James Agnes, 1622 Haffner St., Cincinnati, at $7,876.

The Board of Public Service has awarded the contract for paving Fourth St. with Bermudez sheet asphalt to the ANDREWS PAVING CO., of this city, at the cost of $1.84 per sq. yd. The total cost is $419,758.

CADIZ, OHIO.—Bids are asked, Aug. 31, by W. H. Lucas, Town Clk., for 17,700 sq. yds. brick paving.

YOUNGSTOWN, OHIO.—The Board of Public Service has awarded str[illegible] contracts as follows: To MULL[illegible] MILLER & CALDWELL, for paving Bur[illegible] St. with Bessemer brick, at $7,409; the BARBER SHEET ASPHALT PAVING CO., for paving Michigan and Pennsylvania Aves., and Elm St., at $22,492. F. M. Lillie is City Engr.

MIDDLETOWN, OHIO.—B[illegible] are asked until noon, Aug. 24, by N. G[illegible]lesby, Clk. Bd. of Pub Service, for co[illegible]ting sidewalks, crosswalks, gutters a[illegible] curbing on several streets of Middletown. Frank Doty is City Engr.

CLEVELAND, OHIO.—Bids [illegible] asked until 11 a. m., Aug. 18, by the Co[illegible]ssioners of Cuyahoga County, Julius C. [illegible] Clk., for grading earth, Brecksville Roa[illegible]

PETERSBURG, IND.—We ar[illegible]ficially informed that FRANK JEAN w[illegible] on Aug. 7, awarded contract for constru[illegible] 4½ miles of stone roads, at $13,000.

VINCENNES, IND.—Bids are [illegible]d by the Commissioners of Knox County [illegible]il 1 p. m., Sept. 4, for the construction o[illegible]792 ft. of gravel road, Vigo Township; [illegible]40 ft. of gravel road, Vincennes Townsh[illegible] 8,350 ft. of gravel road in Vincennes To[illegible]ip; 1,559 ft. of gravel roal in Washingt[illegible] Township. John T. Scott is County Audr.

COVINGTON, IND.—We have [illegible]n officially advised, on Aug. 7, T. J. AL[illegible] of Covington, and J. B. THOMAS, of W[illegible]ace, Ind., were awarded contracts for [illegible]structing roads. James T. Bell is County [illegible]dr.

COLUMBUS, IND.—The Boar[illegible] of Public Works will soon ask for bids fo[illegible] the paving of Franklin St. with asphalt.

PAOLI, IND.—A. B. Ham, Co[illegible]y Audr., writes that contract for const[illegible]ing two miles road in Northeast Townsh[illegible] has been awarded to ELWOOD JOHNSO[illegible] Orleans, Ind., at $3,004.

GREENCASTLE, IND.—It is reported that the contract to improve 25,629 ft. of macadamized roads was, on Aug. 4, awarded to SCRIBNER & CO., Russellville, Ind., at $14,605. C. C. Hurst is County Audr.

CROWN POINT, IND.—We are officially advised by Charles A. Johnson, County Audr., that the following contracts for constructing gravel roads were let, Aug. 6: C. H. FATOUT, Indianapolis, Road No. 17, $13,760; PRETTEYMAN & TIBBS, San Pierre, Ind., road in Winfield Township, $33,60[illegible]; HATCH & SON, Goshen, Ind., road in Hobart Township, $53,459.

MANISTEE, MICH.—A contract for 3,250 sq. yds. of bitulithic pavement has been awarded to the CENTRAL BITULITHIC CO., of Detroit, Mich.

WINNETKA, ILL.—CHARLES M. PORTER, of Chicago, has secured the contract for 8,500 sq. yds. paving at $16,393, and for drainage at $4,499.

PETERSBURG, ILL.—It is reported that bids were opened July 31 as follows for 17,061 sq. yds. paving, 1,101 ft. stone header, 15 catchbasins and 11,194 lin. ft. combined curb and gutter: M. Ford, Cedar Rapids, Iowa, $40,600; A. F. FRANKS, Jacksonville, Ill., $39,600 (awarded contract).

EAST ST. LOUIS, ILL.—We are officially advised that the following contracts were awarded for street paving at East St. Louis: HILL-GAYNORD CONSTRUCTION CO., East St. Louis, for paving with Purrington brick, St. Louis Ave., $7,304; 31st St., $10,068; 11th St., $15,393; 24th St., $13,247. WALTER COONAN, East St. Louis, for paving 15th St. with Albion brick, $14,172. Silas Cook is Mayor and Pres. Bd. Pub. Improvements; W. J. Crocken is City Engr.

DANVILLE, ILL.—Bids are asked until Aug. 20 by the Highway Commissioners, George W. Boswell, Chn., for paving with brick a portion of the Batestown Road.

It is reported that the MAELLERING CONSTRUCTION CO., of Fort Wayne, has secured the contract for 12,000 sq. yds. brick pavement on 6-in. base at $1.33 per sq. yd., and 4,000 sq. yds. at $1.31. W. H. Martin is City Engr.

HELENA, MONT.—Bids are asked until Aug. 20, by the City Council for grading, curbing, constructing gutters, laying sidewalks and cross walks, and planting trees in the West Side Improvement District. C. W. Helmick is City Engr.

ARGENTA, ARK.—FRANK COLLINS has been awarded contract for improving Main St., at $11,682.

FORT BAYARD, N. MEX.—Bids are asked until Aug. 27 by Capt. S. P. Vestal, Q. M., for constructing about 28,000 ft. brick or concrete gutters and sidewalks at this post.

CRAIG, COLO.—Bids are asked until noon, Sept. 1, by T. W. Jaycox, State Engr., for constructing a wagon road at Williams Fork Hill, between Craig and Hamilton, Colo.

SEATTLE, WASH.—The following contracts for street improvements were awarded by the board of public works Aug. 4: Grading of North 43d St., ANDREW PETERSON, $53,000; Eighth Ave., northeast, sewer, SANFIELD & GIFFORD, $4,532; East Garfield St., grading and concrete walks, T. RYAN, $3,863; Second Ave., sewer, Cedar St. to Denny Way, GEORGE W. WALKER, $3,016.

OAKLAND, CAL.—Bids are asked until 10 a. m., Aug. 20, by John P. Cook, Clk. Bd. Supervisors of Alameda County for macadamizing portions of County Roads Nos. 956 and 1649.

OTTAWA, ONT.—The BARBER ASPHALT CO. has contract for paving Laurier Ave., at $48,500, and Charlotte St., at $2[illegible]33. N. J. Ker is City Engr.

TORONTO, ONT.—We are officially informed that the WARREN BITUMINOUS PAVING CO., of Toronto, has been awarded a contract for 3,045 sq. yds. of bitulithic pavement.

TORONTO, ONT.—The City is about to expend about $23,475 for bituminous macadam, and $17,289 for concrete sidewalks. C. H. Rust is City Engr.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

AUGUSTA, ME.—The American Shoe Finding Co. has purchased the peg mill property of Louder & Ayer, at Bingham. They will move their machinery there as soon as two wings have been built to the mill.

BROCKTON, MASS.—Howard and Foster, of this city, are to erect a four-story shoe factory in Pleasant St., which will cost in the neighborhood of $50,000. The building is to be of frame construction, 151 × 250 ft.

WILLIMANTIC, CONN.—The American Thread Co. will build a new brick storehouse for baled cotton near Mill No. 4. The storehouse will be 40 × 80 ft.

NORWICH, CONN.—The Consolidated Ry. Co. has completed plans for the erection of a large car house in this place. It will be of brick, 150 × 200 ft. Provision will be made for a repair shop, waiting room and manager's office. The cost of construction and equipment will approximate $100,000.

WILKES-BARRE, PA.—Plans have been made for a yarn mill to be built here by the Wilkes-Barre Lace Mfg. Co. The building will be four stories high, 92 × 109 ft. Work will begin at once and the mill will probably be ready for occupancy by Oct. 1.

Bids are asked by the Dion Mfg. Co., Bennett Bldg., for the erection of a manufacturing plant. It is to be a 2-story reinforced concrete building, 120 × 40 ft. and 40 × 100 ft. Power plant and special machinery will be installed.

LAFAYETTE, PA.—The contract for an addition to a factory for W. C. Hamilton has been awarded to GEO. F. PAYNE & CO., 401 South Juniper St., Philadelphia. It is to be a 4-story building of brick and stone.

WILMINGTON, DEL.—A new mill, 60 × 114 ft., three stories high, is to be built for the Delaware Hosiery Mfg. Co., at 15th and Walnut Sts., at a cost of about $50,000.

DOVER, DEL.—Articles of incorporation were filed here this afternoon for the Montross Metal Casket Co., of Camden, N. J., to manufacture metal caskets and metal vaults. Incorporators: L. H. Montross, Camden, N. J.; C. J. Rice, Philadelphia; E. R. Cochran, Jr., Wilmington, Del. Capital stock, $10,000,000.

BALTIMORE, MD.—Louis Levi, Arch., American Bldg., is preparing plans for a factory for J. M. Raffel & Co. It is to be a 5-story brick building. Power equipment and special machinery required.

WASHINGTON, D. C.—According to the Jobbers and Shippers' Association an outside company proposes to build a 150-ton ice plant here at a cost of $200,000. The proposal is at Charles E. Howe's office.

DURHAM, N. C.—The contracts have been awarded by the Golden Belt Mfg. Co., of Durham, for a 2-story building, 60 × 130 ft. area, to be completed in three months. This building will be equipped with bag-making machinery, which will largely increase the mill's capacity.

GASTON, N. C.—A company with capital of $75,000 is to be organized here to build a factory to manufacture cotton waste into marketable goods. It will draw on the cotton mills in Gaston County for its material.

STATESVILLE, N. C.—The Chatham Mfg. Co., of Elkin, has increased its capital to $350,000, and will establish a big blanket factory here. The factory will be located on the Mocksville & Mooresville R. R.

UNION, S. C.—The directors of the Monarch Cotton Mills have authorized the increase of the plant by the addition of 3,000 spindles and 20 looms, which will occupy all the available space in the mill. The present equipment is 38,000 spindles and 980 looms. The cost of the new machinery will be about $75,000.

GREENVILLE, S. C.—At at meeting of the stockholders of the Fork Shoals Cotton Mills Co. it was decided to increase the stock of the company from $50,000 to $100,000. The addditional capital is to be expended at once in installing additional machinery and in taking up the surplus of electric power recently acquired.

CALHOUN FALLS, S. C.—Judge W. F. Cox will establish a new cotton mill here. The mill will have 25,000 spindles and a capital stock of $400,000. Judge Cox is Pres. of the Cox Mills, in Anderson, and, with a syndicate of Carolina men, he owns a large tract of land at Calhoun Falls, comprising practically the entire town. Work on the new mill will begin about Sept. 1.

NEWNAN, GA.—The plans for the new McIntosh Mills are completed. It is to be a 2-story brick and stone building, 75 × 300 ft.

TUPELO, MISS.—The management of the Tupelo Cotton Mills will double the capacity of the plant by installing 5,000 spindles and 150 looms. It is proposed to begin on the improvements at once, and a building suitable for the purposes has been secured and will be remodeled. The cost of the improvements will be $60,000 to $70,000.

CHATTANOOGA, TENN.—The Chattanooga R. R. Co. has awarded the contract for the construction of their new car shops to the WEST CONSTRUCTION CO., of this city, on a bid of $38,073.

KNOXVILLE, TENN.—The Knoxville Knitting Mills, having within the last two weeks purchased the property of the Southern Trunk Co., are contemplating putting upon the ground a large concrete building, which will double the size of their floor space. In this new building a set of the most modern dyeing machines are to be installed. Hugh M. Johnson has gone East to see to the purchasing of them. When the company makes this addition to its property it will be the largest industry of its kind in the South.

STANTON, KY.—The Patrick Cement Co., composed of J. C. Patrick, K. S. Bohannon and J. D. Atkinson, will build at once a large modern cement plant at Stanton, Powell county, of 500 barrels daily capacity. The field of work contains 1,000 acres of land. The plant will cost $35,000 and will be completed by Jan. 1. The undertaking is attracting the interest of cement men all over the country and will be a big thing for Stanton.

FRANKFORT, KY.—The Frankfort Modes Glass Works Co. has been incorporated with $50,000 capital stock. The company will manufacture bottles and other glassware. The incorporators are Frankfort capitalists. The plant of the company will be located at Thorn Hill, a suburb of Frankfort.

NILES, OHIO.—Niles capitalists will erect a large steel hoop mill. Identified with the enterprise are Milton Coombs, formerly with the Carnegie Steel Co.; Charles S. Thomas, retired iron manufacturer, and Wade Taylor, banker. The company will be capitalized at $300,000, but it is expected that this amount will be doubled. The plant will manufacture steel hoops, cotton ties and bands.

DETROIT, MICH.—A new match factory is to be built here by W. E. Bailey, formerly connected with the Walkerville Match Works. A special feature of the equipment will be machinery into which blocks of wood are put at one end and coming out as matches already boxed at the other end.

HUDSON, MICH.—The Hazen Mfg. Co. has the general plan for their new pump factory, to be erected on Mechanic St. It is to be a 70 × 100-ft. building.

BURR OAK, MICH.—The Hincher Mfg. Co. is about to build a new factory building. The building will be 150 × 50 ft. and probably be built of white brick.

SAGINAW, MICH.—The large maple flooring and crate plant owned by George Strable, of Reed City, Mich., was recently destroyed by fire, and will be rebuilt in Saginaw.

VIRGINIA, MINN.—The Northern Cement Construction Co., which has been operating a concrete plant at Hibbing, will establish a complete plant here.

DALLAS, TEX.—The Dallas Waste Mills has been incorporated at Dallas. This company has a capital stock of $10,000, and will manufacture machine waste from cotton. It was incorporated by R. M. Williams and Michael Thomas.

FORT WORTH, TEX.—A large cotton factory is to be erected here. Five hundred acres of land, two miles west of the city limits, on the line of the Texas & Pacific R .R., were purchased for a company organized as the Fort Worth Cotton Factory & Milling Co.

DEWITT, TEX.—The Thompson Bros. Lumber Co. has been organized here, with a capital stock of $300,000. J. L. Thompson is one of the incorporators.

NAPLES, TEX.—The Sullivan-Sanford Lumber Co. has been organized here, with a capital stock of $500,000. S. R. Sanford, of Naples, is one of the incorporators.

MARSHALL, TEX.—The Texas & Pacific R. R. Co. is preparing to begin the construction of new shops here.

PINELAND, TEX.—Ragley-McWilliams Lumber Co. has been organized here for the purpose of manufacturing lumber. It has a capital stock of $200,000. W. G. Ragley is one of the incorporators.

PORTLAND, ORE.—L. Walker, of the "Pacific Coast Manufacturers' Journal," informed the Commercial Club, of this city, that he intends to start a hosiery factory here that will employ between 150 and 200 hands.

It is reported that the Pacific Coast Syrup Co. will build a large factory at 22d and York Sts. It is to be 100 × 200 ft.

NORTH BEND, ORE.—It is reported that Howard K. Clover, Secy. of Steamships, of Wilmington, Del., contemplates the building of a large distillery to manufacture denaturized alcohol to be located here.

BANDON, ORE.—Wm. Coach states that the Cody Lumber Co. will erect a mill on the site donated by the people of Bandon.

BERKLEY, CAL.—The J. J. Pfister Co. has contracted for the erection of a factory building. It is to be two stories high, 70 × 150 ft., and to cost $15,000.

SAN FRANCISCO, CAL.—E. R. Lilienthal is to erect a 5-story building at Mission and Beale Sts. It is to be of brick, with reinforced concrete floors. Estimated cost, $75,000.

The H. S. Crocker Co. will erect an 8-story building on Brannan St., to be occupied by the largest printing and lithographing establishment west of Chicago. The building will be of brick and fireproof construction. Estimated cost, $150,000.

SANTA CRUZ, CAL.—It is reported that a large cement plant will be erected here. Whitman Sims, of Oakland, representing Eastern capital, is promoting the work.

TROY, IDAHO.—Peter Braun, a Swedish chemist, contemplates the establishment of a plant for manufacturing creosote tar, wood alcohol, charcoal and several other products from pine.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

DREDGING.—Seattle, Wash.—Bids are asked until noon, Aug. 17, by Maj. H. M. Chittenden, Engrs., Seattle, for dredging Gray's Harbor.

REPAIRING WHARF.—Westchester, N. Y.—Bids are asked until Aug. 17, 11 a. m., for repairing quartermaster's wharf at Fort Schuyler, N. Y.

DITCH.—Iowa Falls, Iowa.—Bids are wanted for constructing the Lincoln Township Ditch, about 45,000 cu. yds. Address S. J. Galvin, Iowa Falls.

BREAKWATER.—Charlos' Cove, N. S.—Bids are asked by F. Gelinas, Dept. of Pub. Wks., Ottawa, until Aug. 24, for the construction of a breakwater.

BONDS.—Miami, Fla.—Bids are asked until Aug. 20 by M. R. Kellum, Clk. Board Commissioners Public Works, for $100,000 of municipal improvement bonds.

MAIL CONVEYORS.—Chicago, Ill.—The W. J. SCOWN BLDG. CO., of Chicago, has secured the contract for inclosing mail conveyors in the U. S. post-office, for $10,585.

WHARF.—Grand Mechins, Que.—Bids will be received until Aug. 18 by the Department Public Works, Fred. Gelinas, Secy., Ottawa, Ont., for constructing a wharf at Grand Mechins.

CANAL WIDENING.—Detroit, Mich.—Contract was awarded to the GREAT LAKES DREDGE & DOCK CO. for widening St. Mary's Falls Canal, at $552,530. Itemized bids submitted on this work are given this week under Contract Prices.

DITCHES.—Pekin, Ill.—J. HACK & SON, of Havana, Ill., have been awarded contract for constructing about 5½ miles of ditches for the Le Marsh Drainage District, at $10,375.

LEVEE.—Pekin, Ill.—Commissioners of the Le Marsh Drainage District have awarded contract to the CRESCENT CONSTRUCTION CO., of Peoria, Ill., for levee work, at $42,690.

STEAM TUG.—Ottawa, Ont.—Bids are asked until 4 p. m., Aug. 20 for construction and delivery of an 80-ft. steam tug for Rideau Canal. K. Jones, Secy. Dept. Rys. and Canals.

RAILWAY TUNNEL.—Detroit, Mich.—It is stated that M. J. HANEY, of Toronto, Ont., has been awarded the contract to build the tunnel under the Detroit River for the Michigan Central Ry. Co.

WHARF.—San Luis Obispo, Cal.—H. H. Carpenter, County Clk., states that bids will be received Sept. 4 for the construction of wharves at Port Harford, Cayucos and Cambria. Cost, about $90,000.

DRAIN.—Ophir, Ill.—Bids will be received until Aug. 16 by the Drainage Commissioners of Dist. No. 2, Town of Ophir, at office of County Surveyor, Ottawa, for constructing an open drain, two miles long.

DITCH.—St. Paul, Minn.—The State Drainage Commission, it is stated, has awarded to JOHN KOHLER, of Frazer, the contract for constructing Itasca ditch No. 1, at $4,474, and for Floodwood ditch, at $7,500.

DREDGING.—Wilmington, Del.—Bids are asked until 11 a. m., Aug. 25, by Maj. C. A. F. Flagler, Engrs., for dredging Cooper Creek, N. J. Specifications are on file at office of Engineering News, New York.

LEVEE.—Groveport, Ohio.—Bids are asked until Aug. 18 by Theo. D. Kalb, Clk. Madison Township, R. D. No. 2, Groveport, for constructing a levee on the southeast quarter of Section No. 16, Madison Township.

DITCH.—Center City, Minn.—Bids are asked until Aug. 24 by A. B. Slattengern, County Audr., for constructing Ditch No. 11, main ditch; requiring 46,495 cu. yds. The estimated total cost of the work is $6,193.

LEVEE.—Carrollton, Ill.—The Commissioners of the Hartwell Levee and Drainage District have awarded a contract to CHAS C. JACOBS, of Chicago, to put 300,000 cu. yds. of dirt into a levee at 13.5 cts. per cu. yd.

REPAIRING WHARVES.—San Francisco, Cal.—Bids are asked until 11 a. m., Aug. 25, by Capt. W. C. Wren, Q. M., Presidio, for repairing wharves at the Presidio at San Francisco, and at Ft. Barry and Ft. Baker.

DITCH.—Storm Lake, Iowa.—E. D. Hoxsey, County Audr., states that the contract for constructing ditches in Drainage District No. 3, bids opened July 25, has been awarded to CHARLES R. LEWIS, of Tuscola, Ill., for $20,000.

LOCK AND DAM.—Winnipeg, Man.—Bids are asked until Sept. 10 by the Department Public Works, Fred. Gelinas, Secy., Ottawa, Ont., for constructing a concrete lock and dam at St. Andrews Rapids, Red River, Manitoba.

STORAGE PIER.—Baltimore, Md.—The Baltimore & Ohio R. R. Co. has awarded contract to the BALTIMORE BRIDGE CO. for construction of storage pier, two stories high, 138 × 900 ft., at foot of Andre St. Estimated cost, $160,000.

TIMING DEVICES.—Washington, D. C.—Bids are asked until 10 a. m., Sept. 11, by Bureau of Supplies and Accounts, Navy Dept., for furnishing 20 fire-room timing devices at several navy yards. H. T. B. Harris, Paymaster-Gen.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until 10 a. m., Aug. 28, by Bureau Supplies and Accounts, for furnishing a quantity of naval supplies at several navy yards. H. T. B. Harris, Paymaster-Gen., Navy Dept.

DITCHES.—Babcock, Wis.—Bids are asked until noon, Sept. 5, for constructing one or more sections of draining ditches in Cranberry Creek Drainage District. J. E. Ingraham, Secy., at Babcock. Approximate total length, 20,396 ft.

MOVABLE DAMS.—Albany, N. Y.—The PITTSBURG-EASTERN CO., of Troy, N. Y., is reported to have been awarded the contract for three movable dams, to be constructed in the Mohawk River, in connection with the state canal work, at $1,433,817.

EXCAVATING CHANNEL.—Joliet, Ill.—Bids are asked by the Commissioners until 2 p. m., Sept. 1, for excavation of part of new channel of the Spring Creek Drainage District. There are to be about 20,000 cu. yds. excavated. (Advertised Engineering News.)

ELEVATOR.—Port Colburne, Ont.—Bids were asked until Aug. 15 for construction and erection of an 800,000-bushel capacity elevator, at Port Colburne. J. A. Jamieson is Engr., Bd. Trade Bldg., Montreal, Que. L. K. Jones, Secy. Dept. Rys. and Canals.

DAM.—Middletown, Ohio.—It is reported that bids will be received until Aug. 30 by the State Board of Public Works, at Columbus, for constructing a dam across Great Miami River, two miles above Middletown. The dam is to be 600 ft. long. Estimated cost, $36,000.

FERRYBOATS.—New York, N. Y.—Bids were received on Aug. 14 by J. A. Bensel, Comr. of Docks, for constructing and delivering three steel screw propelling ferryboats, each with two two-cylinder compound engines, as follows: Burlee Dry Dock Co., Port Richmond, Staten Island, for one, $249,000; Harlan & Hollingsworth, 11 Broadway, for one, $217,531; two $426,867; three, $635,000.

REMOVING REFUSE STONE.—Chicago, Ill.—JOHN M. EWEN, Rookery Bldg., Chicago, has been awarded contract for removing 2,000,000 cu. yds. of refuse stone from banks of the drainage canal between Lemont and Lockport; 300,000 cu. yds. are to be removed a year.

DITCH.—Spirit Lake, Iowa.—C. C. Hamilton, County Audr., states that the contract for constructing a ditch for Richland Township Drainage District No. 2, bids opened July 23, has been awarded to BRODERICK & KELTZ, of Superior, Iowa, at 15 cts. per cu. yd.; total cost, $12,861.

AIR COMPRESSORS.—Charleston, S. C.—The Bureau of Yards and Docks, Navy Dept., Washington, is readvertising for two air compressors and accessories for the Charleston Navy Yard. Bids were opened July 21, but were rejected. Bids are asked until 11 a. m., Sept. 1. Noted on July 26.

GANGWAY.—Washington, D. C.—The following are the bids received July 30 by the Supervising Architect, at Washington, D. C., for constructing a main gangway at Gulf Quarantine Station, Ship Island, Miss.: W. H. Virden, Lewes, Del., $11,950, and Eskell & Custanera, Biloxi, Miss., $7,560.

FIRE ENGINES.—Chicago, Ill.—The contract for ten engines for the Fire Department has been divided among four bidders, as follows: AMERICA & LA FRANCE CO., three engines at $5,350; INTERNATIONAL POWER CO., three at $5,350; AHRENS FIRE ENGINE CO., two at $5,367; NOTT MFG. CO., two at $5,368.

REMOVING PIERS, BUILDING FERRY TERMINAL.—New York, N. Y.—Bids are asked until noon, Aug. 24, by J. A. Bensel, Comr. of Docks, for removing old piers and ferry structures between Whitehall and Broad Sts., East River, Boro. of Manhattan, and for building new ferry structures for the new 39th St. ferry terminal and for dredging.

CRANE WHARF.—New Orleans, La.—The following are the bids received Aug. 4 by Mordecai T. Endicott, Ch. Bureau of Yards and Docks, Navy Dept., Washington, D. C., for extension to crane wharf, at the Naval Station, New Orleans. The bids contain certain modifications: Penn Bridge Co., Beaver Falls, four bids, $29,860 to $47,700, and Milwaukee Bridge Co., Milwaukee, Wis., four bids, $31,000 to $51,200.

LEVEE.—Hillview, Ill.—Bids are asked until Aug. 31 by Louis Lowenstein, Secy. Hillview Drainage and Levee Dist., at Hillview, for constructing four sections of levee embankment, aggregating 766,000 cu. yds. The average height of the embankment is 10.83 ft. The total length of the improvement is approximately 52,243 ft. Bidders may submit bids for one section or for the entire work. J. G. Mellnish, Engr., 222 Unity Bldg., Bloomington, Ill.

EXCAVATION, CONCRETE WALL, ETC.—Ithaca, N. Y.—Bids are asked until 8 p. m., Aug. 30, by Edward Hayes, Engr. of the Creek, Drainage and Park Comn., for excavation of about 90,000 cu. yds. of earth (about one-half being dredging); 1,200 cu. yds. of rock; also for the construction of about 5,800 lin. ft. of reinforced concrete wall from six to twelve ft. high; 720 lin. ft. of concrete slope wall and 2,000 lin. ft. of wood docking. (Advertised Engineering News.)

CANAL.—Douglas, Wyo.—Bids are asked until 3 p. m., Aug. 25, at office of La Prele Reservoir & Irrigation Co., Temple Bldg., Douglas, for construction of 13 miles of canal near Douglas, Wyo., involving the excavation of about 165,000 cu. yds. of earth; and for an arched masonry dam, involving about 18,500 cu. yds. of uncoursed rubble masonry. Separate bids for canal and dam are required and unit prices are called for. F. C. Emerson, Ch. Engr.; J. B. Wilson Secy.

PNEUMATIC TUBE MAIL SERVICE.—Washington, D. C.—Bids are asked until Aug. 21 by Geo. B. Cortelyou, Postmaster-Gen., at the office of the Second Assistant Postmaster-General, Post Office Dept., Washington, for the performance of mail service by pneumatic tubes or other similar devices at the following cities, from Oct. 1, 1906, to June 30, 1916: Boston, Mass.; New York, N. Y.; Philadelphia, Pa.; Pittsburg, Pa.; Baltimore, Md.; Cincinnati, Ohio; Kansas City, Mo., and San Francisco, Cal. From July 1, 1907, to June 30, 1916, at Chicago, Ill., and St. Louis, Mo.

RETAINING WALL.—Oneida, N. Y.—Bids are asked until noon, Aug. 22, by N. V. V. Franchot, Supt. Public Works, Albany, N. Y., for building vertical retaining wall on the west side of Oneida feeder in the city of Oneida, from the southerly end of the west abutment of the bridge at Cedar St., to the northerly end of the west abutment of the bridge connecting Elizabeth and Spring Sts., and completing the same on or before Nov. 1, 1906. Estimated quantities: Bailing and draining; 1,150 cu. yds. excavation, including backfilling; 475 cu. yds. second-class masonry; 17,000 ft. B. M. hemlock timber and plank; 600 lbs. spikes and nails; 60 lin. ft. 4-in. vitrified pipe in place; 200 cu. yds. gravel lining.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*LEVEE.—Greenville, Miss.—At a special meeting of the Board of Mississippi Levee Commissioners, held here on July 31, contracts for levee work were awarded to LAWRANCE BROS., of Friar Point, Miss., as follows: Australia levee, banquette, 60,000 yds. at 22 cts.; Australia, topping, 25,000 cu. yds. at 35 cts.; lower end of Lake Beulah, banquette, 24,000 cu. yds. at 24 cts.; lower end of Lake Beulah, topping, 6,000 cu. yds. at 32 cts.; Shady Side, enlargement, 64,000 yds. at 29 cts.; Miller's bend, new spur, 19,000 cu. yds. at 26 cts.; straight stretch, 25,000 cu. yds. at new spur at 29 cts.; Carsons, enlargement, 50,000 cu. yds. at 25 cts.; Glenora to Longwood, banquette, 71,000 cu. yds. at 30 cts.; Duncansby to Glen Annie, enlargement, 16,000 yds. at 26 cts.; Glen Annie to Clover Hill, enlargement, 160 yds. at 26 cts.; Shiloh to Duvalls, 42,000 cu. yds. topping at 34 cts.; Duvalls to Albermarle, 186,500 yds. enlargement at 25½ cts.; Albemarle levee topping, 12,400 cu. yds. at 36 cts.; Albemarle to Bellevue, 30,000 yds. topping at 34 cts.; Bellevue to Brunswick, 30,000 yds. enlargement at 23 cts. This was the largest contract ever awarded to one contractor by the Mississippi Levee Board. Day work was awarded, it is said, to A. D. MONTGOMERY for $5.50 a day a team.

WATER-WORKS EXTENSION.—Trinidad, Colo.—Bids were opened July 9, by the Common Council, for constructing extension to the Trinidad Water-Works. Figures were submitted on wood pipe, continuous and sectional, 14-gage steel pipe, standard lap welded pipe, cast-iron pipe and reinforced concrete pipe. Estimated length about 130,600 ft., head 2,195 ft. Six bids were received, as follows: (A) NATIONAL TUBE CO., Chicago, Ill., pipe only (awarded contract); (B) D. J. Tierssway & Co., Denver, Colo.; (C) Jacobson-Bade & Co., Portland, Ore.; (D) Holme & Allen, Denver, Colo.; (E) Geo. H. Griffin Co., Kansas City, Mo.; (F) Wm. Mignery, St. Joseph, Mo. The Council has advertised for laying the above steel pipe. W. G. Goodwin, Ch. Engr. W.-Wks. Extension. The itemized bids were as follows:

BIDS RECEIVED ON JULY 9 FOR CONSTRUCTING EXTENSION TO WATER-WORKS AT TRINIDAD, COLO.

	(A)	(B)	(C)	(D)	(E)	(F)
37,344 cu. yds. earth excavation	....	....	$0.55	$0.40	$0.33⅓	$0.35
1,290 cu. yds. solid rock excavation	....	....	2.45	1.25	0.90	0.80
3,375 cu. yds. loose rock excavation	....	....	1.50	0.65	0.70	0.65
Dry retaining wall, per cu. yd	....	....	1.75	1.50	1.50	1.50
Concrete, per cu. yd	....	....	15.00	10.00	12.00	10.00
Piles, per pile	....	....	25.00	....	....	....
Piles, per lineal ft	....	....	....	0.80	0.50	0.62
Native timber, const., per M	....	....	70.00	30.00	35.00	35.00
Southern pine, const., per M	....	....	80.00	40.00	45.00	46.00
Furnishing and Laying—						
14 G. Am. spirl pipe, 10″, per ft	....	....	0.84	....	....	....
12 G. Am. spirl pipe, 12″, per ft	....	....	1.14	....	....	....
12 G. Am. spirl pipe, 14″, per ft	....	....	1.35	....	....	....
10 G. Am. spirl pipe, 16″, per ft	....	....	1.65	....	....	....
Furnishing and Laying—						
C.-I. wt. No. 86, 12″, per ft	....	....	2.80	....	....	....
C.-I. wt. No. 106, 14″, per ft	....	....	3.15	....	....	....
C.-I. wt. No. 123, 16″, per ft	....	....	3.50	....	....	....
Furnishing and Laying—						
Wd. stv. pipe, cont. joint, 18″, I. D., per ft	....	....	1.75	....	....	....
Wd. stv. pipe, cont. joint, 20″, I. D., per ft	....	....	1.95	....	....	....
Wd. stv. pipe, cont. joint, 22″, I. D., per ft	....	....	2.05	....	....	....
Wd. stv. pipe, cont. joint, 24″, I. D., per ft	....	....	2.25	....	....	....
Furnishing and Laying—						
Wd. stv. pipe, sectional, 12″, per ft	....	....	1.05	....	....	....
Wd. stv. pipe, sectional, 14″, per ft	....	....	1.30	....	....	....
Wd. stv. pipe, sectional, 16″, per ft	....	....	1.40	....	....	....
Wd. stv. pipe, sectional, 18″, per ft	....	....	1.55	....	....	....
Extra work, above cost	....	....	15%	....	10%	10%
25,300 ft. 14″ cont. W. S. P. 35,000 ft. 16″ cont. W. S. P. 54,000 ft. 18″ cont. W. S. P. 16,200 ft. 20″ cont. W. S. P. Laid complete	....	....	192,786	....	....	....
14 G. steel pipe 25,300 ft. 16″ 19,000 ft. 17″ 16 000 ft. 18″ 54,000 ft. 20″ 16,200 ft. 22″ Laid complete	....	....	197,568	....	....	....
Furnishing and Laying—						
Reinforced concrete conduit, 16″	....	....	....	....	1.30	....
Reinforced concrete conduit, 20″	....	....	....	....	1.44	....
Reinforced concrete conduit, 15″	....	....	....	....	....	1.25
Reinforced concrete conduit, 18″	....	....	....	....	....	1.35
Furnishing and Laying— 60,304 ft. 14″ cont. W. S. P. 54,002 ft. 16″ cont. W. S. P. 16,202 ft. 18″ cont. W .S. P.	....	193,578	....	....	....	....
14 G. Steel Line— 28,000 ft., 14″ 26,504 ft., 15″ 31,000 ft., 16″ 54,004 ft., 18″ 16,200 ft., 20″	....	198,658	....	....	....	....
Prices per ft., furnished f. o. b. Trinidad—						
10″ thickness, .162″	.78¼	....	....	....	....	....
12″ thickness, .181″	1.01½	....	....	....	....	....
13″ thickness, .19″	1.17¼	....	....	....	....	....
14″ thickness, .20″	1.32¾	....	....	....	....	....
15″ thickness, .21″	1.52¼	....	....	....	....	....
16″ thickness, .221″	1.81½	....	....	....	....	....
16 to 15″ reducer	12.75	....	....	....	....	....
15 to 14″ reducer	8.50	....	....	....	....	....
14 to 13″ reducer	4.50	....	....	....	....	....
13 to 12″ reducer	6.75	....	....	....	....	....
12 to 10″ reducer	6.75	....	....	....	....	....
Matheson or Converse Joint.						

SEWER.—Boston, Mass.—Bids were received by the Metropolitan Water and Sewerage Board on Aug. 3 for building Section 64, North Metropolitan Sewer, at Malden. The bidders, and the itemized bids, were as follows: (1) T. H. Gill & Co., 88 Broad St., Boston; (2) Bruno, Salomone & Petitti, 23 Court St., Boston; (3) Coleman Bros., 15 Court St., Boston; (4) Metropolitan Contracting Co., 95 Milk St., Boston.

BIDS RECEIVED ON AUG. 3, FOR SEWER AT MALDEN, MASS., BY BOSTON METROPOLITAN WATER AND SEWERAGE BOARD.

	(1)	(2)	(3)	(4)
1,353 lin. ft. earth excavation and refilling in trench, 54″ sewer	$5.60	$7.00	$12.00	$9.50
765 lin. ft. earth excavation and refilling in trench, 42″ sewer	4.60	6.50	8.00	9.00
835 lin. ft. earth excavation and refilling in trench, 28″ x 42″ sewer	4.20	7.00	6.50	6.40
100 cu. yds. brick masonry, Portland, in trench	14.00	15.00	16.00	14.00
2,000 cu. yds. concrete masonry, Portland, in trench	8.00	8.00	7.50	9.00
3,500 lin. ft. spruce piles, in place	0.25	0.30	0.25	0.30
100 cu. yds. rock excavation, in trench	7.00	5.50	4.00	6.00
Totals	$33,578	$39,388	$45,658	$46,132

VIADUCT STRUCTURE.—Cincinnati, Ohio.—Six bids were received by the Board of Public Service, M. J. Keefe, Clk., on July 30, for constructing substructure for Harrison Ave. viaduct. The bidders were (a) F. W. Folz & Co., Dayton St. and Freiman Ave.; (b) Cleary Construction Co.; (c) Henkel & Sullivan, Mercantile Library Bldg., Cincinnati; (d) M. J. Cavanaugh, Elberton St. and Mt. Hope Ave.; (e) Concrete Steel Co., Pittsburg; (f) Lewis & Minot, Newport, Ky. The bids in detail were as follows:

BIDS RECEIVED ON JULY 30, AT CINCINNATI, OHIO, FOR BUILDING SUBSTRUCTURE ON HARRISON AVENUE VIADUCT.

	(a)	(b)	(c)	(d)	(e)	(f)
13,000 cu. yds. excavation	$0.50	$0.50	$0.50	$0.40	$0.58	$0.40
3,800 cu. yds embankment	0.50	0.50	0.50	0.30	0.62	0.40
10,000 lin. ft. concrete piling	1.15	0.31	1.50	1.16	1.30	1.20
5,304 cu. yds. concrete for abutments	7.50	8.10	8.00	7.90	7.35	6.75
1,281 lin. ft. granite coping	2.00	2.80	2.00	2.25	1.30	3.00
39,800 lbs steel anchor bolts	0.04	0.03	0.06	0.05½	0.02½	0.03
Totals	$63,834	$59,243	$70,792	$64,902	$64,542	$54,559

*CANAL WIDENING.—Detroit, Mich.—On July 24 bids were received as follows, by Col. Charles E. L. B. Davis, Engr., for widening St. Mary's Falls Canal; (a) GREAT LAKES DREDGE & DOCK CO., Buffalo, N. Y. (awarded contract); (b) Buffalo Dredging Co., Buffalo, N. Y.; (c) MacArthur Bros. Co., Chicago, Ill.; (d) H. E. Talbott & Co., Dayton, Ohio; (e) Great Lakes Construction Co., Buffalo, N. Y.; (f) John Griffiths and Geo. W. Griffiths, Chicago, Ill.

BIDS RECEIVED ON JULY 24, AT DETROIT, MICH., FOR WIDENING CANAL.

	(a)	(b)	(c)	(d)	(e)	(f)
5,000 cu. yds. cement	$5.00	$4.20	$6.00	$7.00	[illegible]	$5.50
70,000 cu. yds. filling with stone	0.30	0.40	1.25	0.65	[illegible]	0.50
300,000 cu. ft. framing cribs and superstruction	0.10	0.25	0.17	0.18	[illegible]	0.10
75,000 sq. ft. channeling rock	0.20	0.25	0.40	0.33	[illegible]	0.32
355,000 cu. yds. rock excavation	1.11	1.20	1.90	1.49	[illegible]	1.50
141,000 cu. yds. earth excavation	0.48	0.38	0.60	1.16	[illegible]	0.60
Totals	$552,530	$622,080	$957,200	$851,430	$625,8[illegible]	$733,280

MACADAM PAVEMENT.—Salt Lake City, Utah.—Bids were received on July 2, by Louis C. Kelsey, City Engr., for macadam pavement on portions of First and Second Sts. The bidders were (1) P. J. Moran and (2) Hanley & Ritchie. The bids in detail were as follows:

BIDS RECEIVED FOR MACADAM PAVEMENT ON PORTIONS OF FIRST AND SECOND STS., SALT LAKE CITY, UTAH.

Bids received for macadam pavement on First St., from A to J.

	(1)	(2)
Grading:		
10.000 cu. yds. excavation	$0.55	$0.50
150 lin. ft. cement curbing, steel reinforced, cement gutter, 6″ × 12″ incl. 30″	1.20	2.00
350 lin. ft. 6″ × 8″, curved to special radii	1.10	1.10
400 lin. ft. cement curbing, plain, 6″ × 18″	0.70	0.70
6,000 lin. ft. 6″ × 18″, including 30″ cement gutter	1.05	1.60
260 lin. ft. 6″ × 18″, curved to special radii	1.00	0.90
800 lin. ft. cement gutter, along curbing, 30″ wide, incl. foundation	0.60	0.70
15,000 sq. yds. paving, with macadam	0.65	0.75
120 sq. yds. with sandstone blocks, incl. foundation	3.00	2.40
1,200 sq. ft. cement sidewalk, intersections 4″ thick	0.16	0.16
Waterways:		
200 lin. ft., furnishing and laying 12″ vitrified pipe	0.65	0.90
1,600 lin. ft., furnishing and laying 10″ vitrified pipe	0.55	0.80
100 lin. ft., furnishing and laying 8″ vitrified pipe	0.40	0.65
450 lin. ft., furnishing and laying 6″ vitrified pipe	0.30	0.50
200 lin. ft., furnishing and laying 4″ vitrified pipe	0.26	0.40
18 storm water inlets, complete, as shown on plan	22.00	28.00
1 storm water outlet, complete, as shown on plan	25.00	28.00
9 diverting boxes, complete, as shown on plan	17.00	25.00
9 resetting manhole and valve box covers	6.00	3.00
100 lin. ft., furnishing and cutting 4″ x 10″ guard timbers	0.20	0.20
Removing Trees:		
1 6″ or less in diameter	2.50	3.00
1 greater than 6″ and less than 1′ in diameter	5.00	4.00
1 1′ and over in diameter	7.50	5.00
Totals	$25,587	$30,735

For macadam pavement on Second St., from Canyon Road to West St., and C St., from South Temple to Second Sts.

	(1)	(2)
Grading:		
33,000 cu. yds. excavation	$0.55	$0.50
400 lin. ft. cement curbing, steel reinforced, 6″ × 18″, including 30″ cement gutter	1.20	2.00
850 lin. ft. 6″ × 18″, curved to special radii	1.10	1.10
2,000 lin. ft. cement curbing, plain, 6″ × 18″	0.70	0.70
18,550 lin. ft. 6″ × 18″, including 30″ cement gutter	1.05	1.60
700 lin. ft. 6″ × 18″, curved to special radii	1.00	0.90
2,000 lin. ft. cement gutter, along curb, 30″ wide, including foundation.	0.60	0.70
47,000 sq. yds. paving, with macadam	0.65	0.77
300 sq. yds. with sandstone blocks, including foundation	3.00	2.40
7,000 sq. ft. cement sidewalk intersections, 4″ thick	0.16	0.16
Waterways:		
350 lin. ft., furnishing and laying 12″ vitrified pipe	0.65	0.90
3,500 lin. ft., furnishing and laying 10″ vitrified pipe	0.55	0.80
175 lin. ft., furnishing and laying 8″ vitrified pipe	0.40	0.65
1,000 lin. ft., furnishing and laying 6″ vitrified pipe	0.30	0.50
500 lin. ft., furnishing and laying 4″ vitrified pipe	0.26	0.40
46 storm water inlets, complete	22.00	28.00
4 storm water outlets, complete	25.00	28.00
23 diverting boxes, complete	17 00	25.00
16 resetting manhole and valve box covers	6.00	3.00
100 lin. ft., furnishing and setting 4″ × 10″ guard timbers	0.20	0.20
Removing trees:		
1 6″ or less in diameter	2.50	3.00
1 greater than 6″ and less than 1′ in diameter	5.00	4.00
1 1′ and over in diameter	7.50	5.00
Totals	$79,199	$95,359

*MAIN CANAL.—Browning, Mont.—One bid was received on July 31, by the U. S. Reclamation Service, at Browning, Mont., for building 14-mile main canal, St. Mary Project, Mont. The bidder was the Puget Sound Bridge & Dredging Co., of Portland, Ore. The bid in detail was as follows: Excavation, Class 1 (1,400,000 cu. yds.), 0.2275 cts.; excavation, Class 2 (202,000 cu. yds.), 0.6525 cts.; excavation, Class 3 (111,000 cu. yds.), $1.80; refilling (1,300 cu. yds.), 45 cts.; concrete (5,000 cu. yds.), $19.50; placing reinforcing steel in concrete. ¾-in. bars or wire fabric (300,000 lbs.), 0.2625 cts.; riprap (300 cu. yds.), $3.00; concrete pipe, 36-in. diameter (300 lin. ft.), $7.50; concrete pipe, 30-in. diameter (500 lin. ft.), $5.60; concrete pipe, 24-in. diameter (900 lin. ft.), $3.85; concrete pipe, 18-in. diameter (900 lin. ft.), $2.25. Total, $767,505.

INDUSTRIAL NOTES.

THE INLAND STEEL CO., of Chicago, reports the completion of its new factory and its readiness to fill orders promptly for steel roofing of all kinds.

THE PRESSED STEEL CAR CO., of Pittsburg, has moved its office in Mexico City from Calle de Gante No. 8 to Prolongacion del 5 de Mayo No. 9.

THE TRAYLOR ENGINEERING CO., of New York City, has appointed as its sole representatives for the State of Nevada the engineering firm of Shirley & Grant, of Reno, Nev.

THE BALTIMORE FERRO-CONCRETE CO. announces the removal of its offices to the Glenn Bldg., 10 to 20 St. Paul St., Baltimore, where it will occupy the entire third floor.

THE AMERICAN RAILWAY STEEL TIE CO., 42 Broadway, New York, N. Y., reports that it has an order for 3,000 steel ties on the Snyder system for the Pennsylvania Railroad.

THE TRAYLOR ENGINEERING CO., of New York City, have received an order from the Sierra Consolidated Gold Mining Co., of Hillsboro, New Mexico, for hoisting, pumping, and electrical machinery, and the steel and iron work for a complete hoisting and crushing plant.

THE B. F. STURTEVANT CO., of Boston, is installing two standard economizers for the American Steel & Wire Co., Worcester, Mass. These will serve 3,000 boiler horsepower.

THE B. F. STURTEVANT CO., of Boston, Mass., has sold to the U. S. Navy Yard, Indian Head, Md., eight of its new style high-pressure rotary type blowers, designed for special use.

THE DE LA VERGNE MACHINE CO., of New York City, are installing a 350-ton refrigerating plant in the works of the E. & G. Brooke Iron Co., for use in drying the air blast for their furnaces.

A STURTEVANT DRY KILN outfit, consisting of steel plate fan with direct connected engine and steel pipe heater connected therewith will be installed by the Springfield Wagon Co., of Springfield, Mo.

THE ALLIS-CHALMERS CO.'S office at Denver, Colo., has been removed to the McPhee Building, 17th and Glenars Sts., and its El Paso office to the Guarantee Trust Building, Rooms 301-306, El Paso, Tex.

THE ERNST WIENER CO., of 66-68 Broad St., New York City, manufacturers of industrial track, cars and equipment, has opened a branch office in the Gazette Bldg., Pittsburg, Pa., which is in charge of Mr. Paul Muller.

THE B. F. STURTEVANT CO., of Boston, will install in the boiler room of the Hampton Co., East Hampton, Mass., a standard economizer, and induced draft apparatus with steel stack and an under-grate draft apparatus with the necessary flues, dampers, etc.

THE B. F. STURTEVANT CO., of Boston, have furnished an engine-driven fan and heater for the blower heating system to be installed in the new office building in process of erection in connection with the plant of Wood Worsted Mills, South Lawrence, Mass.

THE STEVENS-HEWITT ENGINEERING CO., of New York, has been retained as engineers for the development of a large water-power on the Susquehanna River, at Colliers, N. Y. The concrete-steel dam, 35 ft. high and 300 ft. long, together with the concrete-steel canal wall, about 600 ft. long, are designed and built under supervision of the Ambursen Hydraulic Construction Co., of Boston. Work has already been commenced in stripping the foundations.

MR. CARL REUTER, 623 Land Title Building, Philadelphia, Pa., has obtained the sole selling rights for the United States and Canada of the Brunsviga Computing Machine, while Mr. Felix Hamburger, 78 Fifth Ave., New York City, remains sole importer of these machines.

THE WESTINGHOUSE ELECTRIC & MANUFACTURING CO., of Pittsburg, has recently made one of its largest single shipments, consisting of a train of 19 cars loaded with apparatus for the Helena Power Transmission Co., of Iron Siding, Mont. The shipment included four 2,800-KW. generators, two 200-KW. exciters and nine 2,000-KW. transformers.

THE B. F. STURTEVANT CO., of Boston, has recently sold generating sets to the following: Rand-Avery Supply Co., Boston, Mass.; H. J. Kunzig, Philadelphia, Pa.; High Rock Knitting Co., Philmont, N. Y.; W. W. Gleckner & Sons Co., Canton, Pa.; Wrentham Hat Co., Wrentham, Mass.; City & Suburban Home Co., New York City; MacArthur Bros. Co., Glen Lyn, Va.

THE BUFFALO FORGE CO. reports that its London branch office and the office of the Buffalo Steam Pump Co. have been changed from 39 Victoria St., East, to Caxton House, Westminster. This change has been made necessary by the constant and rapid growth of the company's business in Great Britain. The new offices afford a great deal of extra space and are more conveniently located.

THE PLATT IRON WORKS CO., who have been located on Liberty St., New York City, have found it necessary to obtain larger offices, and have moved to 100 Broadway. A large wareroom, with a complete line of all patterns of pumps and compressors, feed-water heaters, condensing apparatus, etc., has also been established at 81 West St., where repairs are carried in stock for prompt shipment.

THE TRAYLOR ENGINEERING CO., of New York City, has received an order from the Tri-Bullion Smelting & Development Co. for a complete steam hoisting equipment, to operate a depth of 700 ft. for its mine at Kelly, N. Mex. The equipment will consist of a double cylinder, single drum hoisting engine of the latest design; a portable tubular boiler, complete with stack and injector; two 15 cu. ft. ore buckets; a galvanized iron water tank, and all the accessories of rope, sheave wheel, gong, pipe and fittings.

THE LIMA LOCOMOTIVE & MACHINE CO., of Lima, O., announces the following sales of locomotives for the past week: Sibley Quarry Co., Sibley, Mich., one 18-ton Shay; C. R. Johnson, Norfolk, Va., one 24-ton Shay; Victoria Lumber & Mfg. Co., Victoria, B. C., two 45-ton Shay; England Walton Co., Ltd., Philadelphia, Pa., one 18-ton Shay and one 24-ton Shay; Superviele & Co., Las Predras, Uruguay, S. A., one 10-ton Shay; Gibson Battle & Co., Sydney, Australia, one 65-ton Shay; T. M. O'Connell, Rainier, Ore., one 37-ton Shay.

THE INDEPENDENT PNEUMATIC TOOL CO. advises us that it has appointed Messrs. Lake, Hale & Co., 11 Front St., San Francisco, Cal., its exclusive Pacific coast representatives. They will carry a large stock of piston air drills and reamers, reversible flue rolling, tapping and wood boring machines, pneumatic riveting, chipping, calking and beading hammers, etc., with suitable spare parts. A large number of orders has been received during the past few weeks from Pacific coast states, and the prospects for greatly increased business in this district appear very promising.

THE CROCKER-WHEELER CO. reports the following as a partial list of recent sales: Allentown Spinning Co., one 60-KW. DC engine type generator, 125 volt, 675 RPM; Northern Coal & Coke Co., one 80-KW. DC generator, 250 volt; New Jersey Zinc Co., four motors ranging from 10 to 35 HP.; Haverford College, one 125-KVA, engine type, AC generator, 2,300 volt, 60 cycle, 3 phase, 257 RPM; Mohawk Valley Cap Co., one 300-KW. DC generator, 480 volt, 150 RPM.; one 18-KW. DC generator, 125 volt, 170 RPM, and two motors ranging in HP. from 10 to 75, all of 440 volts; E. I. DuPont Co., one 130-KW. DC generator, 550 volts.

THE WESTINGHOUSE ELECTRIC CO. reports that it has secured a contract from the Strangen-Wick Railway Co., which operates a suburban line near the city of Stockholm, for the electrical equipment of the cars to operate this road, with the single-phase system. This recognition of the superiority of American electric railway apparatus is the result of an elaborate test instituted by the Swedish government about a year ago. In this test, manufacturers of electric railway systems of America and Europe entered into competition, and the palm was finely awarded to the Westinghouse Co., which was then given an order for an alternating current single-phase locomotive. The order from the Strangen-Wick Co. calls for the same type of electric railway motors.

THE HICKS LOCOMOTIVE & CAR WORKS, of Chicago, has taken over the business established by F. M. Hicks & Co. in 1896 for the purchase, repair, and sale of second-hand locomotives and cars. The plant at Chicago Heights covers about 75 acres, and has a number of buildings: the locomotive erecting shop is 170 × 250 ft., with pits for 24 locomotives; machine shop, 65 × 170 ft.; boiler and blacksmith shop, 50 × 230 ft.; passenger car erecting and repair shop, 170 × 197 ft.; wood-working and cabinet shop, 70 × 158 ft.; tender shop, 60 × 158 ft.; dry kiln and lumber shed, 64 × 80 ft.; store room, 68 × 140 ft.; freight car building and repair shop, 140 × 280 ft.; truck shop, 65 × 220 ft.; power-house, 60 × 80 ft. A shop 180 × 400 ft. is to be built for the construction and repair of steel freight cars. The plant can build 15 box or gondola cars per day, and has orders for 300 gondola cars and 300 stock cars for the Chicago Great Western Ry. Contracts are also on hand for repairing freight cars for railway companies. Most of the locomotive work is in repairing and rebuilding, but some smaller locomotives may be built. F. M. Hicks is president of the firm, which has a capital of $1,200,000.

THE CLIMAX MACHINERY CO., Indianapolis, Ind., is introducing the Roth centrifugal pump for deep wells. The runner is inserted in the well and driven by a pulley or motor on the head of the shaft. Two have been supplied to the city of Tacoma, Wash., and are operated by electric motors; others are in use by the Independent Ice Co., Charleston, S. C.; the People's Cold Storage & Warehouse Co., of Kansas City, Mo., and Armour & Co., of Kansas City, Mo. The Climax Machinery Co. also manufactures grain handling machinery.

THE ATLANTIC BITULITHIC CO., of Spartanburg, S. C., has been incorporated, with a capital stock of $150,000, to do a general contracting business, such as street and sidewalk pavements, water-works, sewers, etc. The officers of the company are as follows: President and Treasurer, Geo. O. Tenney, of Spartanburg, S. C.; Vice-President, W. H. Dorin, of Norfolk, Va.; Auditor, J. L. Pool, of Spartanburg, S. C. The main office will be in the Floyd-Mitchell Building, Spartanburg, S. C., with a branch office at Norfolk, Va. The new company has already closed a contract with Suffolk, Va., for $50,000 worth of pavements, besides assuming the contract of the Southern Bitulithic Co., of Knoxville, Tenn., for laying three miles of pavement at Spartanburg, S. C.

THE ALLIS-CHALMERS CO., of Milwaukee, reports a new record made in the course of a test upon a 20,000,000-gal. Allis-Chalmers triple expansion pumping engine at the Bissel's Point station of the St. Louis waterworks in February. The production of an indicated horse-power per hour on an average consumption of 10.59 lbs. of dry saturated steam was determined. The average heat supply was at the rate of 201.39 B. t. u. per minute horse-power, giving a thermal efficiency of 21.06 per cent. The mechanical efficiency was 97.4 per cent; the duty per 1,000 lbs. of steam 181,068,605 foot pounds, and per million British thermal units 158,581,000 foot pounds. The guaranteed duty was 135,000,000 with a bonus of $1,000 per million foot pounds, so that engine earned for its builders $46,068.61 above the contract price.

THE SEWER PIPE TRADE ASSOCIATION, familiarly known as the sewer pipe trust, was charged before the Federal grand jury at Jamestown, N. Y., on July 19, with having entered into a secret contract to limit the production and control the territory and prices of sewer pipe. The attorney for the association submitted an offer that the combination would voluntarily dissolve if the proposed investigation by the grand jury were dropped. This proposition was accepted by the district attorney. The membership of the association was, according to its articles of agreement, as follows: American Sewer Pipe Company, Pittsburg, Pa.; Buckeye Sewer Pipe Company, Akron, Ohio; Clearmont Sewer Pipe Company, Clearmont, Pa.; Duquesne Fire Proofing Company, Pittsburg, Pa.; East Ohio Sewer Pipe Company, Irondale, Ohio; Federal Clay Manufacturing Company, New York City; James Loeb & Co., Urichsville, Ohio; New York State Sewer Pipe Company, Rochester, N. Y.; Patton Clay Manufacturing Company, Patton, Iowa; Pittsburg-Buffalo Company, White Rock, Pa.; Portland Stoneware Company, Portland, Me.; Robinson Clay Product Company, Robinson Graves Company, Urichsville, Ohio; St. Mary's Sewer Pipe Company, St. Mary's, Pa.; Kane Aberkersch Company, Toronto, Ohio; Stratton Fire Clay Company, Empire, Ohio, and Shawmut Clay Manufacturing Company, Urichsville, Ohio.

THE CARNEGIE STEEL CO. has purchased for its Homestead works two 2,000-KW. alternating current generators driven by gas engines. These units are to be furnished by Allis-Chalmers Co., of Milwaukee, and they complete an order recently given for machinery costing approximately one million dollars, to be built by Allis-Chalmers Co. for the Homestead plant. It includes three gas engine driven electric units and four gas blowing engines, the aggregate capacity of these machines being nearly 30,000 HP. This follows close upon the recent million-dollar order given to Allis-Chalmers Co. by the Indiana Steel Co. for the electrical equipment of its new plant at Gary, Ind., where gas engines of the same type and capacities, operating on waste gas from the blast furnaces, are to serve as prime movers for electric generators supplying current to the steel mills. Other purchasers of gas blowing engines and gas-engine-driven electrical units made from Allis-Chalmers Co. amount to practically a million dollars more; so that sales during the past few months have aggregated THREE MILLION DOLLARS. Another notable sale of gas-engine-driven electric generating units has just been made to the Milwaukee Northern (Electric) Railway Co., whose plant will represent the largest installation of this kind on the continent. The power house of this company, which will be situated at Port Washington, Wis., is to contain three horizontal twin-tandem gas engines, each having a rated capacity of 1,500 HP., with liberal allowance for overload, direct-connected to three 1,000-KW., 3-phase, 23-cycle alternating current generators. The complete units will be built and installed by Allis-Chalmers Co.

CONTRACT PRICES.

*PUMPING STATION AND INTAKE.—Columbus, Ohio.—Four bids were received by the Board of Public Service on July 18 for improvement of water supply. Contract No. 15, Scioto River pumping station and intake. The bidders were (1) WESTWATER & CASEY, Columbus (awarded contract); (2) D. W. McGrath, Columbus; (3) Ambrose B. Stannard, New York, N. Y.; (4) Charles J. Close, Columbus. The detailed bids submitted are here given. John H. Gregory is Engr.-in-Charge, Improved Water and Sewage Works, Columbus.

BIDS RECEIVED ON JULY 18 FOR PUMPING STATION AND INTAKE AT COLUMBUS, OHIO.

		Engineer's Estimate.	(1)	(2)	(3)	(4)
1,400	cu. yds. excavation, Class A	$1.50	$3.00	$2.00	$2.10	$15.00
3,600	cu. yds. excavation, Class B	0.80	0.72	1.00	1.80	3.00
18,000	cu. yds. excavation, Class C	0.35	0.48	0.50	0.55	1.00
5,000	cu. yds. rolled embankment	0.20	0.18	0.50	0.40	1.50
2,100	cu. yds. loam	0.40	0.48	0.50	0.55	2.00
3	acres seeding	40.00	30.00	25.00	40.00	100.00
800	sq. yds. sodding	0.30	0.36	0.50	0.60	0.30
10	cu. yds. filter gravel, Class A	5.00	6.60	7.00	8.00	1.25
25	cu. yds. filter gravel, Class B	3.00	6.60	7.00	8.00	1.00
120	cu. yds. filter sand	2.00	6.60	4.00	8.00	2.25
30	cu. yds. broken stone or gravel backing	1.00	0.90	0.90	1.20	2.00
80	cu. yds. stone paving	3.00	3.00	6.00	4.00	3.25
2,300	lin. ft. paved gutter	0.60	0.60	0.60	0.80	1.00
1,600	sq. yds. macadam road	0.65	0.72	0.60	1.60	2.40
360	sq. yds. granolithic pavement	1.75	2.70	1.50	1.70	1.90
30	cu. yds. brick masonry	12.00	12.00	10.00	12.00	14.00
380	cu. yds. concrete, Class A	25.00	26.30	18.00	12.50	16.00
420	cu. yds. concrete, Class B	12.00	11.30	16.00	10.70	16.00
800	cu. yds. concrete Class C	8.00	7.80	20.00	7.30	12.00
3,800	cu. yds. concrete, Class D	6.00	5.75	7.00	6.30	5.00
600	cu. yds. concrete, Class E	6.00	5.75	7.00	8.40	9.00
1,650	cu. yds. concrete, Class F	5.50	5.75	6.00	5.70	4.50
200	lin. ft. 2-duct vit. conduit	0.40	0.79	1.50	0.54	0.20
250	lin. ft. 4-duct vit. conduit	0.60	1.20	2.00	0.70	0.30
800	lin. ft. 6-in. vit. sewer pipe	0.20	0.24	0.50	0.55	0.15
300	lin. ft. 8-in. vit. sewer pipe	0.30	0.30	0.60	0.62	0.25
100	lin. ft. 10-in. vit. sewer pipe	0.40	0.42	0.75	0.64	0.40
70	lin. ft. 12-in. vit. sewer pipe	0.50	0.48	1.00	0.85	0.50
80	lin. ft. 15-in. vit. sewer pipe	0.70	0.84	1.10	1.05	0.75
220	tons cast-iron pipe	40.00	40.00	38.00	50.00	60.00
80	tons bell and spigot special castings	80.00	84.00	80.00	100.00	110.00
10	tons flange special castings	100.00	108.00	100.00	120.00	130.00
4	6-inch gate valves	15.00	24.00	10.00	20.00	30.00
1	6-inch gate valve, geared	20.00	30.00	15.00	30.00	35.00
1	10-inch gate valve	35.00	36.00	24.00	40.00	42.00
2	16-in. gate valves	80.00	104.00	40.00	100.00	105.00
1	20-in. gate valve	120.00	234.00	125.00	140.00	225.00
5	36-in. gate valves	450.00	678.00	300.00	440.00	700.00
2	48-in. gate valves	1,150.00	996.00	400.00	950.00	1,000.00
5	valve boxes	13.00	6.00	5.00	30.00	6.50
2	fire hydrants	45.00	48.00	50.00	60.00	50.00
4	6-in. circular sluice gates	30.00	24.00	16.00	20.00	30.00
2	24-in. circular sluice gates	175.00	210.00	150.00	190.00	200.00
2	42-in. circular sluice gates	375.00	360.00	400.00	520.00	380.00
2	48-in. circular sluice gates	425.00	600.00	450.00	620.00	750.00
2	36-in. × 48-in. circular sluice gates	400.00	600.00	300.00	470.00	720.00
7	6-in. shear sewer gates	16.00	15.00	10.00	36.00	20.00
2	8-in. shear sewer gates	19.00	16.00	15.00	45.00	27.50
	48-in Venturi meter, lump sum	3,725.00	3,817.00	3,700.00	3,600.00	3,540.00
	6-in. automatic siphon, lump sum	35.00	33.00	35.00	100.00	30.00
40,000	lbs. iron castings	0.04	0.033	0.03	0.035	0.05
9,000	lbs. architectural cast-iron work	0.08	0.12	0.05	0.10	0.11
25	tons twisted steel rods	70.00	57.00	60.00	70.00	75.00
	Steel frame work and roof, lump sum	29,500.00	27,000.00	29,625.00	34,000.00	25,000.00
	Steel superstructure of bridge, lump sum	3,200.00	3,068.00	3,100.00	3,700.00	3,300.00
	Steel track supports in coal pocket roof, lump sum	1,150.00	1,008.00	1,125.00	1,500.00	1,000.00
46,000	lbs. wrought steel floor plates	0.03	0.06	0.045	0.09	0.06
42,000	lbs. miscellaneous steel work	0.045	0.05	0.045	0.05	0.04¾
	Intake screens, lump sum	60.00	150.00	37.00	250.00	75.00
	Screen lifter, lump sum	75.00	100.00	35.00	350.00	35.00
	Hand traveling crane, lump sum	300.00	495.00	290.00	450.00	475.00
	Gate house screens, lump sum	250.00	220.00	400.00	480.00	350.00
	Stop planks, lump sum	120.00	100.00	245.00	900.00	120.00
116	lin. ft. bridge floor	3.50	2.00	6.00	6.30	3.40
120	lin. ft. wrought iron pipe railing, Type A	1.00	1.00	0.60	1.10	1.00
360	lin. ft. wrought iron pipe railing, Type B	1.25	1.40	0.80	3.40	1.60
	Industrial railway in boiler room, lump sum	1,200.00	1,150.00	1,250.00	1,440.00	1,350.00
	Industrial railway in coal pocket, lump sum	200.00	200.00	160.00	370.00	225.00
	Industrial railway in basement, lump sum	320.00	300.00	310.00	460.00	325.00
250	lin. ft. industrial railway, ballasted, straight track	1.10	1.25	1.00	1.80	1.00
50	lin. ft. industrial railway, ballasted, curved track	2.40	2.75	1.00	4.00	3.00
380	sq. ft. cast-iron boiler room floor plates	1.50	1.30	1.05	2.30	1.75
	Boiler room track scales, lump sum	300.00	275.00	370.00	350.00	310.00
2	charging cars	200.00	195.00	40.00	200.00	195.00
2	tip cars	150.00	215.00	40.00	175.00	165.00
7	coal outlet valves	60.00	140.00	30.00	160.00	200.00
	Hydraulic elevator, lump sum	1,250.00	600.00	1,200.00	1,200.00	924.00
	Motor-driven sump pump, lump sum	450.00	300.00	450.00	1,100.00	750.00
	Brick masonry in superstructure, lump sum	20,000.00	20,556.00	22,000.00	26,000.00	48,000.00
	Hollow terra-cotta roof tile, lump sum	1,600.00	2,075.00	1,580.00	2,200.00	2,200.00
	Hollow terra-cotta partition tile, lump sum	180.00	115.00	200.00	240.00	250.00
	Roofing and sheet metal work, lump sum	4,500.00	3,927.00	4,000.00	6,000.00	3,700.00
	Carpenter and mill work, lump sum	8,200.00	4,500.00	10,000.00	7,500.00	10,000.00
	Plastering and metal lathing, lump sum	850.00	1,536.00	900.00	1,800.00	1,650.00
	Painting and glazing, lump sum	2,300.00	1,925.00	2,250.00	2,200.00	1,750.00
	Plumbing, lump sum	2,000.00	1,532.00	1,500.00	2,100.00	1,432.00
	Steam heating, lump sum	600.00	520.00	600.00	500.00	750.00
	Steam main to water purification works, lump sum	550.00	325.00	560.00	550.00	500.00
	Electric wiring and lighting, lump sum	2,500.00	2,400.00	2,500.00	6,000.00	2,500.00
	Electric mains to water purification works, lump sum	600.00	1,100.00	600.00	8,000.00	1,200.00
	Superstructure of chimney, lump sum	7,200.00	6,000.00	6,500.00	6,000.00	7,000.00
	Gate house superstructure, lump sum	1,200.00	1,200.00	1,350.00	1,600.00	950.00
	Total	$205,067.00	$204,817.00	$226,850.00	$250,421.00	$292,147.00

TRADE PUBLICATIONS.

BUSHINGS.—Steel City Electric Co., Pittsburg, Pa. Paper; 3¼ × 6¼ ins.; pp. 24; illustrated.

Pullman locknuts, Star bushings and other contractors' supplies are listed in this pamphlet, with prices.

CROSS-ARMS.—Carbolineum Wood Preserving Co., Portland, O. Paper; 6 × 9 ins.; pp. 4.

This is a net price list of carload lots of Oregon fir cross-arms treated with the preservative called Avenarius Carbolineum.

GARBAGE CREMATORIES.—The Victor Sanitary Manufacturing Co., Columbus, Ohio. Paper; 3½ × 6 ins.; pp. 4; illustrated.

The Victor garbage crematory No. 1 is a garbage receptacle for household use, to which is attached a drying and cremating arrangement operated by gas.

ELECTRIC METERS.—H. W. Johns-Manville Co., New York City. Paper; 3½ × 6 ins.; pp. 6; illustrated.

The Victor combination meter is a direct reading instrument showing simultaneously on a single dial volts, amperes, watts and horse-power. The pamphlet contains price lists.

GRAPHITE COMMUTATOR BRUSHES.—Joseph Dixon Crucible Co., Jersey City, N. J. Paper; 3½ × 6½ ins.; pp. 11.

Dixon's graphite brushes are most suitable for greater resistances and high voltages; to secure the best results a pressure of from 3 to 6 lbs. per sq. in. should be used with them. Other suggestions for their use are also contained in this pamphlet.

CAMERA TRIPODS.—Wm. Butler, 20 Crosby Road, Birkdale, Southport, England. Paper; 5¾ × 8¾ ins.; pp. 16; illustrated.

Butler's Swingcam camera stand is a contrivance which permits placing a camera in any position whatever. The tripod head can be fixed at any angle between a horizontal and a vertical position, or may even be completely inverted.

EARTH AND STONE HANDLING MACHINERY.—The Good Roads Machinery Co., Kennett Square, Pa. Paper; 10 × 6¾ ins.; pp. 24; illustrated.

This is a supplementary catalogue describing the National dump wagon, the National elevating grader, ditcher and wagon loader, the Good Roads wheel scrapers and the National drag scrapers.

HOISTING ENGINES.—The Wellman-Seaver-Morgan Co., Cleveland, Ohio. Paper; 6 × 9 ins.; pp. 32; illustrated.

The geared hoisting engines of this company are especially designed for mine service and other hard and continuous work. The pamphlet contains descriptions and illustrations of the various types, with tables of dimensions and directions for ordering.

PILE DRIVING MACHINERY.—Vulcan Iron Works, Chicago, Ill. Catalogue No. 29. Paper, 5 × 7 ins.; pp. 48; illustrated.

Complete pile driving outfits and all the parts, supplies and equipment thereof are described and illustrated in this pamphlet. It includes also directions for their operation and data bearing on the safe bearing load for piles and the force of blow of steam hammers.

ELECTRIC MOTORS.—Crocker-Wheeler Co., Ampere, N. J. Bulletin No. 66. Paper; 7½ × 10 ins.; pp. 8; illustrated.

Form W direct current electric motors are built for the heavy demands of rolling mill service. They are built series or compound, for one speed and 220 volts only; their features are mechanical strength, sealed bearings and non-sparking and fireproof character.

CEMENT WORKERS' TOOLS AND SUPPLIES.—The Contractors' Tool Co., Philadelphia, Pa. Paper; 3 × 6¼ ins.; pp. 48; illustrated.

Jointers, groovers, edgers, rollers, wheelbarrows, shovels and other tools and supplies for the use of cement workers and contractors are here listed with prices. Two pages contain formulas and directions for laying cement walls.

SEALS FOR METERS, ETC.—The Safety Meter Lock Co., Columbus, Ohio. Paper; 6 × 9¼ ins.; pp. 24; illustrated.

Safety seals afford protection for gas and water meters, stop cocks, caps, prepay meter locks, railway cars, etc., that otherwise might without detection be tampered with. The seal consists of a case having two interlocking members, which when placed in position about the union or connection required to be sealed, are locked together by the insertion of a key. This key, when once inserted, cannot be withdrawn without breaking; likewise, the connection cannot be opened except by breaking the key. When opened intentionally, however, the connection may be again sealed by the use of a new key. Illustrations show the manner of applying the seal and its appearance as used on various meters, etc.

LOGGING CARS.—Russel Wheel & Foundry Co., Detroit, Mich. Paper; 9 × 6 ins.; pp. 55; illustrated.

The logging cars of standard pattern built by the Russel Wheel & Foundry Co. are illustrated and described in this pamphlet. A few pages are devoted to flat cars, trip stake holders, and a table affording approximate statistics of the transportation of logs on flat and logging cars.

COKE OVENS.—United Coke & Gas Co., New York City. Cloth; 9 × 12 ins.; pp. 146; illustrated.

This book is entitled "A Short Treatise on the Destructive Distillation of Bituminous Coal," and is intended to furnish general information concerning the by-product coke oven and its operation. It is written in a non-technical style and contains many illustrations, mainly of plants in which United-Otto ovens have been installed.

WATER WASTE PREVENTION.—The Pitometer Co., New York City. Six pamphlets. Paper; 6 × 9 ins.; illustrated.

These pamphlets comprise papers by John A. Cole on "Water Waste in New York and Brooklyn," and in connection with Edward S. Cole on "The Distributing System" and "Directions for Using the Pitometer"; the other three pamphlets describe the pitometer and the method of inspecting water mains by means of it so as to detect water-works losses.

POWER PUMPS.—The Goulds Manufacturing Co., Seneca Falls, N. Y. Paper; 8 × 7 ins.; pp. 20; illustrated.

The high pressure fire protection plant installed at Coney Island, N. Y., by the Goulds Manufacturing Co. forms the subject of this pamphlet. Three Goulds triplex double-acting piston pumps and three vertical, three cylinder, four cycle Nash gas engines, manufactured by the National Meter Co., N. Y., constitute the equipment. The pumps have a total capacity of 4,650 gals. per minute.

MECHANICAL FILTERS.—United Water Improvement Co., Pennsylvania Bldg., Philadelphia, Pa. Catalogue F. Paper; 5 × 7 ins.; pp. 24; illustrated.

The mechanical filters manufactured by this company have a strainer system provided with expansion ports which permit the discharge of any substance that would tend to choke them, and still prevent sand from passing through. House filters, gravity filters, and the Hungerford pressure filters are also described. A few pages are devoted to explaining the theory of their operation.

ELECTRIC HAULAGE.—North Penn Iron Co., Philadelphia, Pa. Bulletin No. 32. Paper; 7 × 10 ins.; pp. 8; illustrated.

The "Electric Mule" is a towing system supported on an overhead cable. The carriage, hung from the cable by a grooved two-wheel trolley, contains a driving motor geared to a grooved shear wheel, about which a light steel cable is wound several times and anchored at both ends of the line. The main or bearing cable, which has a copper core, and the traction cable constitute the electric circuit. The motor is reversible and may be operated either from the carriage or at the end of the line.

WATER SOFTENERS. — Kennicott Water Softener Co., Chicago, Ill. Paper; 9 × 12 ins.; pp. 54; illustrated.

This is a large, well-illustrated pamphlet which explains the mode of operation and the merits of the type B Kennicott water softener. This apparatus is especially adapted for use in laundries, tanneries and other industrial plants, as indicated by testimonial letters printed in the pamphlet.

ELECTRICAL APPARATUS.—Stanley-G. I. Electric Manufacturing Co., Pittsfield, Mass. Three bulletins. Paper; two 3½ × 6 ins.; one 6 × 9 ins.; illustrated.

Bulletin No. 609, superseding Nos. 25 and 194, is devoted to G. I. floor and wall outlet boxes.

Circular No. 786 describes the new type K arc lamps.

Circular No. 787 describes type L direct current motors and generators.

ROOFING.—Barrett Manufacturing Co., New York City. Paper; 7½ × 10 ins.; pp. 8; illustrated.

This booklet, entitled "The Passing of Tin," contains numerous expressions of opinion voiced by roofing contractors at the Tin Plate Conference at the first meeting of the National Association of Master Sheet Iron Workers. The Barrett specification for standard slag or gravel roofing is appended.

ASBESTOS PACKINGS.—H. W. Johns-Manville Co., 100 William St., New York City. Catalogue No. 101. Paper; 4½ × 7 ins.; pp. 78; illustrated.

"J.-M." asbestos packings are made with or without wire reinforcement, with especial reference to the use of high pressure and superheated steam. Some space in the pamphlet is devoted to rubber and organic fabric packings and to specialties. Prices are given in most cases throughout the pamphlet.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 60.

PAVING, WATER-WORKS AND ELECTRIC LIGHT PLANT.

Manassas, Va.

Sealed bids will be received by the Construction Committee at the People's National Bank of Manassas, on the 19th day of September, 1906, to macadamize the streets and to construct water-works and an electric light plant in the town of Manassas, Va. Bidders will bid on the work as a whole and for each class of work separately. The specifications can be had by applying to the undersigned and depositing three dollars, to be refunded when the said specifications are returned. The Council of the said town reserves the right to reject any or all bids or any part thereof.

O. E. NEWMAN,
7-1t Chairman.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., August 14, 1906.—Sealed proposals will be received at this office until 3 o'clock p. m., on the 17th day of September, 1906, and then opened for painting and decorating the U. S. Post Office, Court House and Custom House building at St. Paul, Minn., in accordance with the specification, copies of which may be had at this office or at the office of the Custodian at St. Paul, Minn., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 7-2t

Situations Wanted

ORNAMENTAL IRON.—Experienced draftsman and estimator, would change; location, New York or West. Address "G. A. 7," Engineering News, New York. 7-1t

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TWO STRUCTURAL DRAFTSMEN and detailers for column, girder and truss work for mill and office building construction; state age, experience, references and salary expected; steady position for capable, sober, reliable parties. Address "S. A. 7," Engineering News, New York. 7-1t

WANTED—3 or 4 first-class structural and ornamental draftsmen. Apply at once. HINKLE IRON CO., 534 W. 56th St., New York. 7-1t

WANTED—By a large manufacturer of plumbing supplies, an intelligent young man of good appearance and address, having some knowledge of business as salesman and solicitor. Address answers in applicant's own hand writing, giving age, reference, former employment and salary expected. Address "R. A. 7," Engineering News, New York. 7-1t

ENGINEERING ASSISTANTS WANTED for field party on heavy construction; technical training necessary; graduates of first class engineering preferred. Address "P. A. 7," Engineering News, New York. 7-1t

WANTED.—An assistant who has had experience in and thoroughly understands survey and subdivision computations, for work in office and field. Write, stating qualifications and salary desired. JOHN M. FARLEY, White Plains, N. Y. 7-1t

WANTED.—Experienced structural iron detailers on building work. Address "X. A. 7," Engineering News, New York. 7-1t

WANTED.—Young man experienced in making detail shop drawings for structural steel work. Address, with references and salary expected, "H. A. 7," Engineering News, New York. 7-1t

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Two iron deck, pin-connected spans, 90 ft. center to center, end pins; one iron deck, pin-connected span, 200 ft. center to center, end pins. Above bridges designed for rolling load of two 66-ton engines followed by 1,820 lbs. per lineal foot. A TELFORD, Pur. Agt., C., N. O. & T. P. Ry. Co., Cincinnati, Ohio. 2-8t e o w

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STEAM ROAD ROLLERS FOR SALE

Several styles. All in A-1 condition.

Address, for particulars, A. C., 24, care of
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Bridges for Sale

4 75′ Deck Girder Bridges; 1 34′ Deck Girder Bridge; 2 45′ Deck Girder Bridges; 2 24′ Deck Girder Bridges; 2 Single Track Rolled I-Beam Girder Bridges; 1 Double Track Rolled I-Beam Girder Bridge.

F. P. JEFFRIES
Genl. Pur. Agt., C. & E. I. Ry.,
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One 10-ton Kelly-Springfield Road Roller

Has had but about one month's work.

HENRY H. MEYER COMPANY,
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Eight Horse Power Turbine Water Wheel (Whitlock Make)

Perfect condition and ready for use. Cost, $150.00; will sell for $50.00.

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PITTSBURGH CONSTRUCTION CO.
7-3t Diamond Bank Bldg., Pittsburgh, Pa.

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18 x 34 x 42 Atlas Heavy-Duty Corliss Engine

recently manufactured and never been used. Will be disposed of at a bargain.

ATLAS ENGINE WORKS,
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FOR SALE.

at Albany, N. Y., all or any part of 50,000 cubic feet

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8 No. 2 Western Wheel Scrapers.
10 No. 3 Western Wheel Scrapers.
6 Drag Scrapers.
1 Chicago Forge.
1 Guy Derrick. Mast 12″ × 12″ × 65′. Boom 12″ × 12″ × 55′. Complete with hoisting rope, guys, blocks, etc.

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